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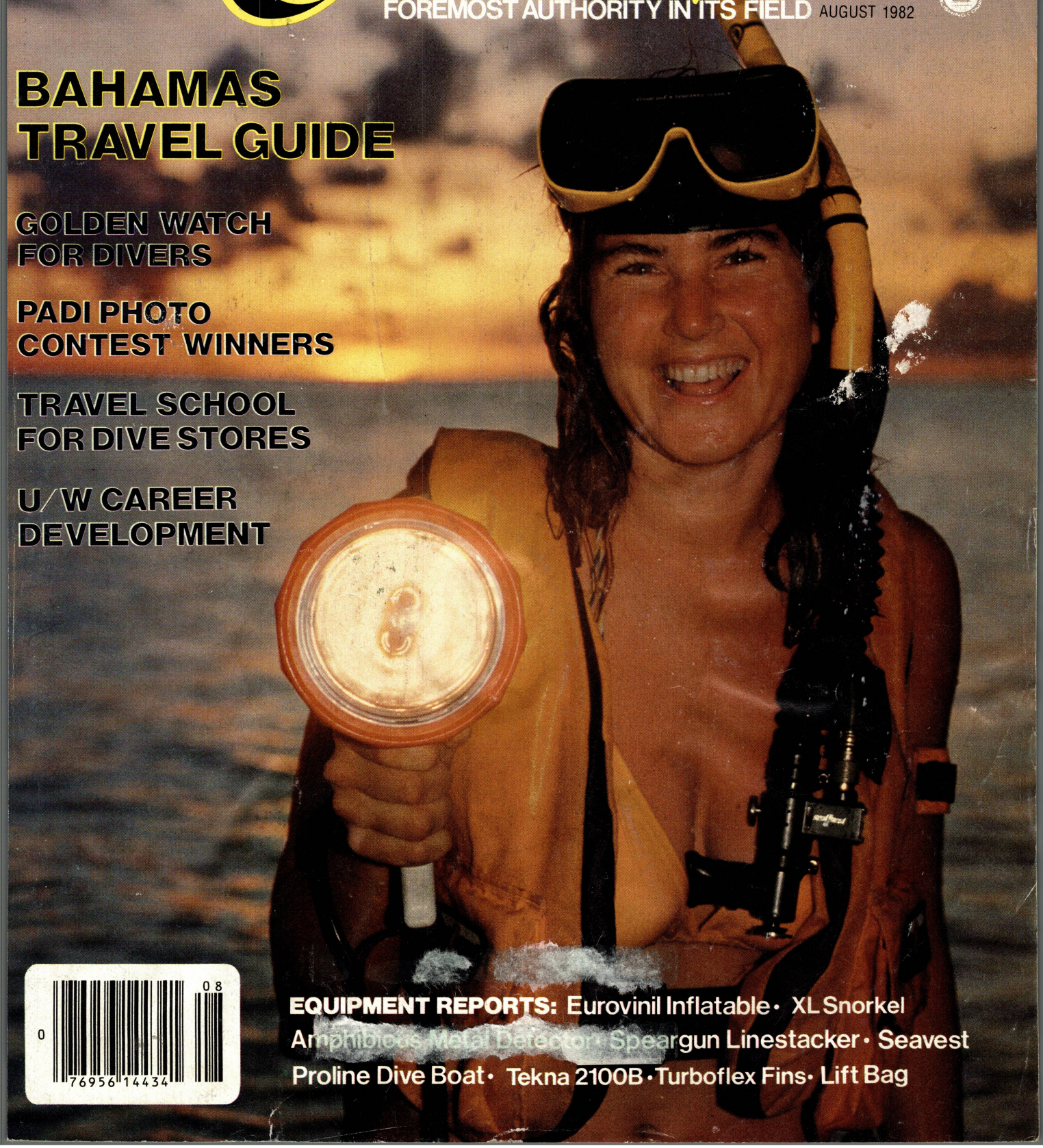
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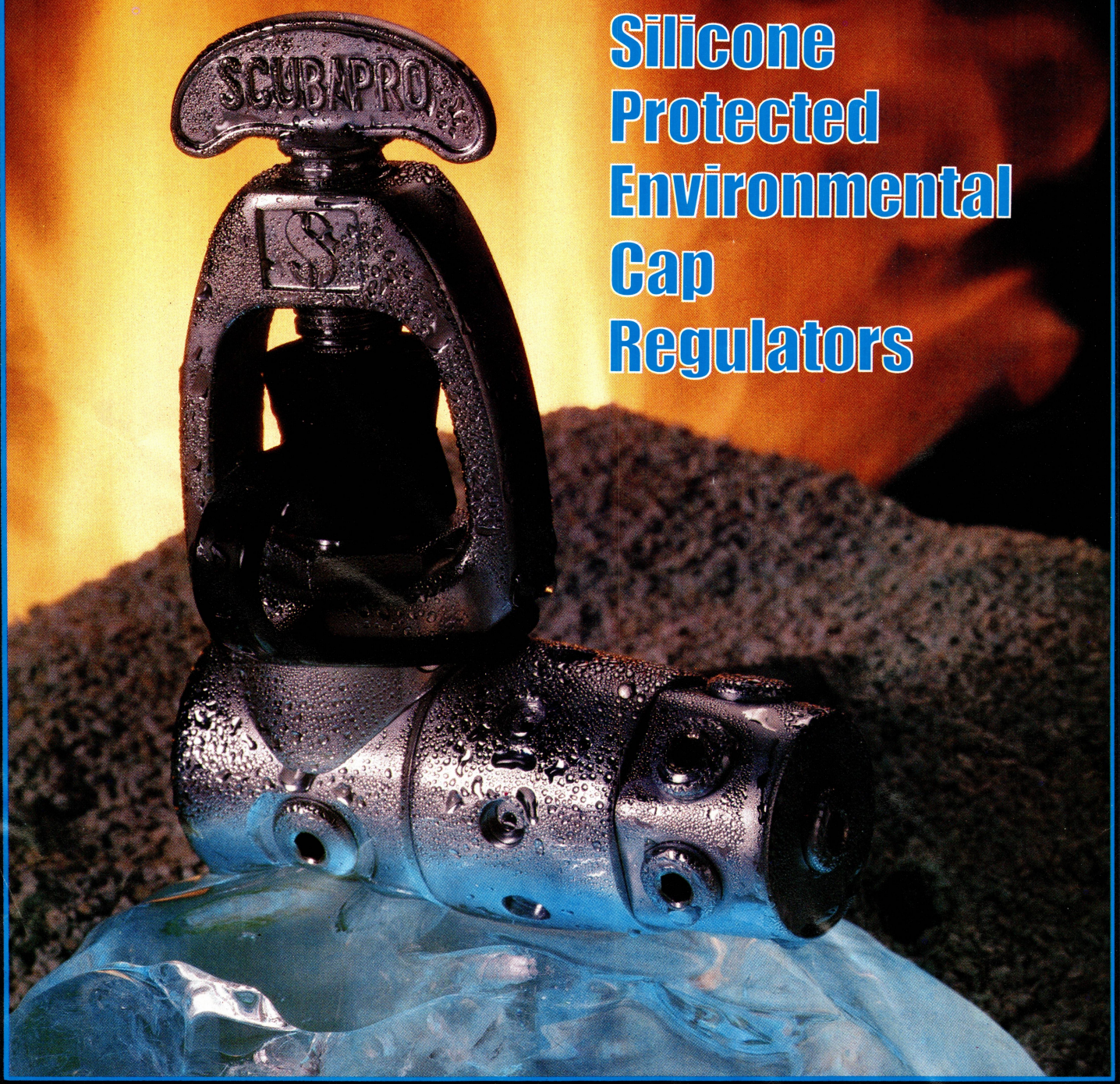


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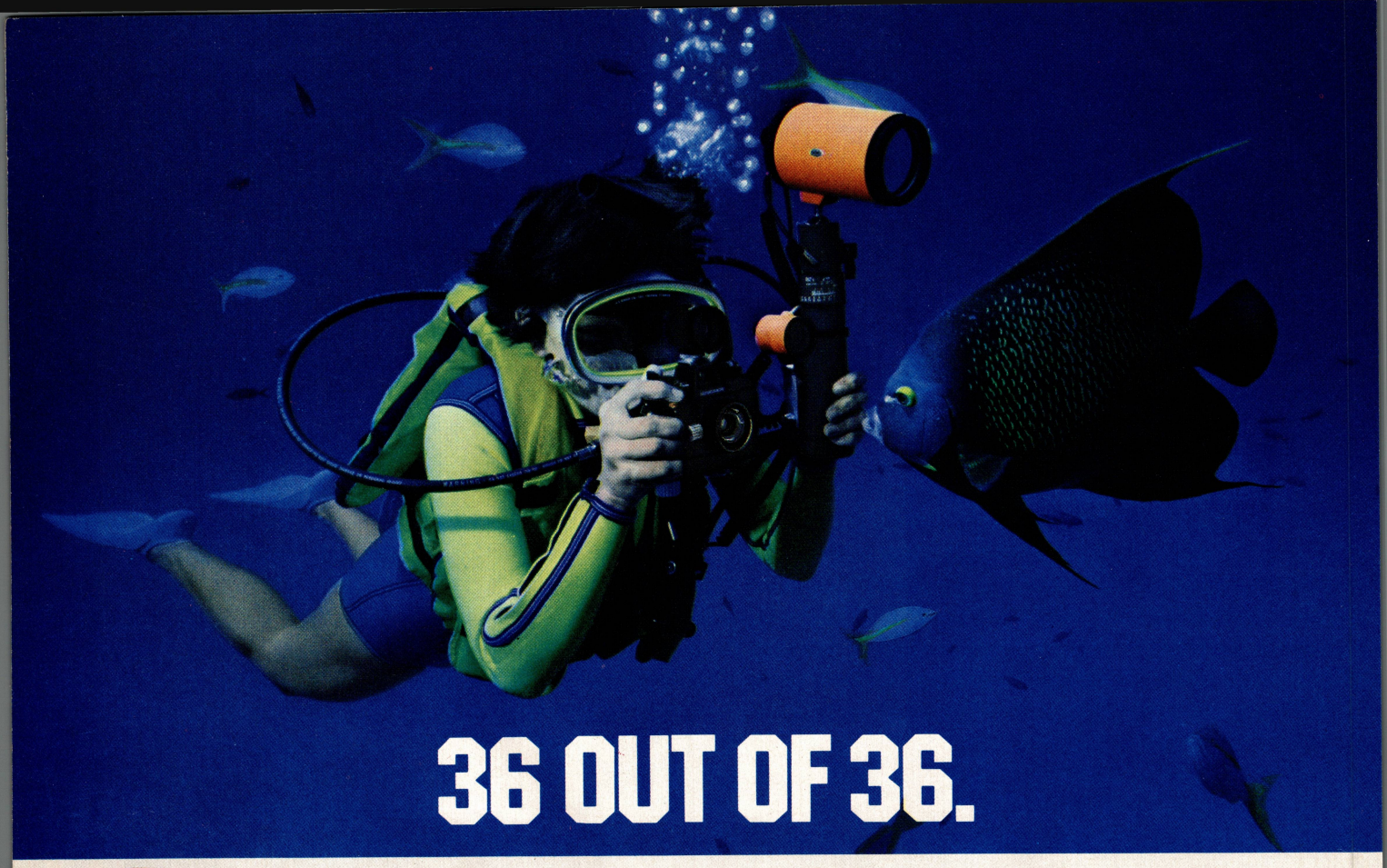
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skin diver
Volume Thirty-One *Number Eight*

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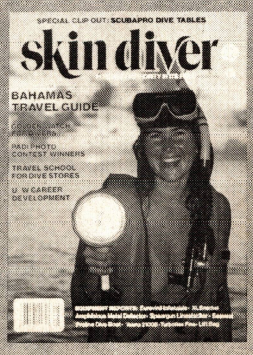
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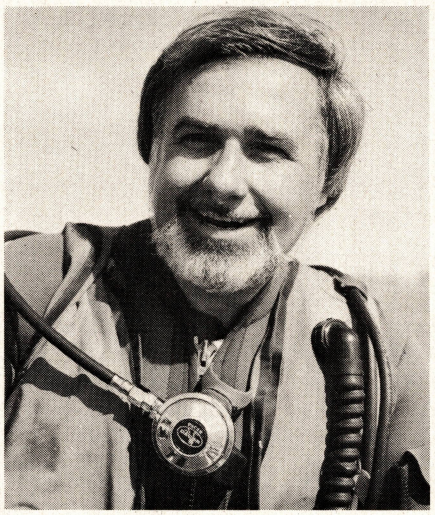
COVER

Diver Shari Kurgis reflects the excitement generated by an evening dive in the Bahamas. This area is known for its breathtaking underwater scenery. See the special section on page 57. Photo/Geri Murphy.

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SDM Editorial

BY THE PUBLISHER



THE DIVER'S OATH

Why do divers have accidents? For the most part, dive accidents are the result of broken rules. The victims have forgotten or ignored the safety procedures taught in basic scuba class. Perhaps we need to be reminded, often, of some simple rules. Perhaps we need a diver's oath—a clearcut pledge—we can review before each dive trip.

THE DIVER'S OATH

- I swear I will never dive alone; I will always keep my dive buddy in sight and close enough to help me or be helped promptly.
- I swear I will never exceed the safe diving depth of 130 feet, and will have my depth gauge checked for accuracy regularly.
- I swear I will remain physically fit for diving through regular exercise (including swimming) and a good diet.
- I swear I will never attempt to mix diving with drugs, and will check with my doctor before diving while taking prescription drugs.
- I swear I will never attempt to dive while under the influence of alcohol.
- I swear I will never let my scuba tank run dry—I will always return to the boat or beach with a minimum of 300 psi.
- I swear I will maintain my scuba equipment in perfect working order; making sure my regulator gets a yearly tune-up, my tank is visually inspected regularly, and that worn straps and missing items are replaced as needed.
- I swear I will abort any dive if there are hazardous conditions such as strong currents, high surf, high waves or stormy weather.
- I swear I will carefully and patiently listen to the orientation given by the divemaster, scuba instructor, boat skipper or any other person who is knowledgeable about the area and conditions of a dive site.
- I swear I will maintain my proficiency at using the no-decompression and repetitive dive tables with regular review and practice prior to actual dives.
- I swear I will take the time and trouble to adjust the weights on my weightbelt for neutral buoyancy before diving.
- I swear I will abort any dive if I should feel nauseous, dizzy, exhausted, weak or have a hangover.
- I swear I will never attempt to enter any cave, tunnel or shipwreck without underwater lights and safety lines.
- I swear I will always plan each dive carefully and then stick to the plan throughout the dive.

If every diver obeyed this oath for scuba safety, there would be fewer accidents and a lot more happy divers.

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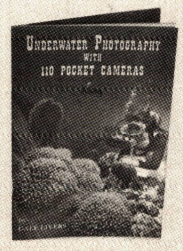
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JULY 31-AUG. 1, Mid America - Superior, Wisconsin, Mark Novak, 4817 W. Farmington, Peoria, IL 61604; (309) 674-3880

AUGUST, West Pacific - Guam, Bob Kent, 1157-A Palau Loop, APO San Francisco 96334

* **AUG. 7-14, Professional Development Center**

** **AUG. 13-20, Professional Development Center**

AUG. 13-22, Mid Pacific - Santa Cruz, Calif., University of California, Santa Cruz, Nancy Guarascio, 24 Amber Place, Alamo, CA 94507; (415) 945-0887 or Mike Williams, 2160 Warner St., Oceano, CA 93445; (805) 481-0614

AUG. 13-16, 27-29, Mid Atlantic - Part I, Baltimore, MD. Part II, Willow Springs Quarry, Richland, Penn., Course Director, Bob Landers, 1053 E. Gude Dr., Rockville, MD 20850; (301) 762-6200

AUG. 14-22, North Atlantic - Providence, R.I., Eric Dewhirst, 61 N. Spruce St., East Providence, R.I. 02914

AUG. 20-29, Southwest - Houston, Texas, 22nd Anniversary ITC, Steve Golden or Larry Cushman, 5705 Glenmont, Houston, TX 77081; (713) 661-6080

SEPT. 1-OCT. 2, West Pacific - Honolulu, Hawaii, weekends, Brad Revis, 98-025 Hekaha St., Aiea, HI 96701; (808) 487-9060

SEPT.-OCT., North Atlantic - Keene, New Hampshire, Dave Werner, 140 Fairgrounds Heights, Springfield, VT 05156

SEPT. 3-11, South Atlantic - Melbourne, Florida, Bob Rutledge, 7705 SW 71 Ave., Miami, FL 33143

SEPT. 11-12, 25-28, North Atlantic - New York, Course Director, Walt Hendrick III, 348 E. 89th, Apt. E-1, Manhattan, New York, N.Y. 10028; (212) 348-7060

* **SEPT. 11-18, Professional Development Center**

** **SEPT. 16-23, Professional Development Center**

OCT. 2-3, 9-10, North Atlantic - New York, Course Director, Walt Hendrick III, 348 E. 89th, Apt. E-1, Manhattan, New York, N.Y. 10028; (212) 348-7060

OCT. 2-31, Bojac Swim and Scuba School, Hawaii - Two weekday evenings for four weeks plus four weekends. (Candidates will teach real Basic Scuba class with ITC staff evaluating), Bob Hoffman c/o Bojac, 94-366 Pupapani St., Waipahu, HI 96797; (808) 671-0311

OCT. 2-9, Mid America - Orongo, Missouri, Mark Novak, 4817 W. Farmington, Peoria, IL 61604; (309) 674-3880

* **OCT. 9-16, Professional Development Center**

OCT. 9-16, North Atlantic - Burlington, Vermont, Art Cohn, Northern Divers, 100 Main St., Burlington, VT 05401

** **OCT. 10-17, Professional Development Center**

OCT. 10-18, Australiasian Chapter - Tangalooma Resort, Moreton Island, Queensland (Australia), Phil Feldman, Course Director, NAUI Australiasian Chapter, P.O. Box 68, Capalaba, Qld 4157; (07) 390-3113

OCT. 24-31, North Atlantic - Framingham, Mass., John LeClair, East Coast Divers, 280 Worcester Rd., Framingham, MA 01701

* **NOV. 13-20, Professional Development Center**

* **DEC. 4-12, Professional Development Center**

* **9547 Valley View, Cypress, CA 90630; (714) 761-6348**

** **(Hall's Diving Center), 1688 Overseas Highway, Marathon, FL Keys 33050; (305) 743-5929**

For further information contact:
National Association of
Underwater Instructors
P.O. Box 14650
Montclair, CA 91763
(714) 621-5801

Diver's Calendar

August 1 Long Island Diver's Association Second Annual Expedition Aquawoman aboard the *Wahoo* at Captree Boat Basin. (Contact: Edith Hoffman at (516) 643-9163)

August 8 Wisconsin Dive Jamboree, South Shore of Devil's Lake State Park, Baraboo, WI. All state clubs and certified divers are invited. (Contact: Badger State Divers Club, P.O. Box 505, Waukesha, WI 52187; (414) 961-0281)

August 14 United Divers of New Hampshire Second Annual Flea Market. 9:30 am-4:30 pm. Corner of Alpheus and Willow Streets, Manchester,NH. (Contact: (603) 625-6439)

August 14-15 Fourth Annual Pacific Coast Underwater Photographic Championships, San Diego, CA. Sponsored by the San Diego Council of Divers, Faralon/Oceanic, Aqua-Craft, Kodak, Scubapro, and Photic of San Diego. (Contact: PCUPC, Al Bruton, 4517 Maryland St., San Diego, CA 92116)

September 3-5 Diver medic specialty course with YMCA certification. Instructors will include Tomas Doubt, Ph.D, of the Hyperbaric Medicine Program Center at the Naval Medical Research Institute. (Contact: Ken McCracken, Land/Sea Passages, 14 E. Water St., Harrisonberg, VA 22801; (703) 433-2177)

September 11 Fifth Annual Divers' Day at Marine World, Redwood City, CA. Presented by the Central California Council of Diving Clubs and Marine World-Africa USA. Program includes scuba skills demonstrations, manufacturer display booths, wacky water races, safety demonstrations. (Contact: CenCal, P.O. Box 779, Daly City, CA 94017)

September 19 Third Annual Divers Swap Meet. Sponsored by the Santa Ana College Dive Club, Santa Ana, CA. Everyone welcome, no sellers fee. (Contact: Jim Taylor, 22011-J Rimhurst Dr., El Toro, CA; (714) 586-9274)

September 19 United States Scuba Council Underwater Scavenger Hunt, Perl Lake, South Beloit, IL. $5,000 in prizes. Refreshments. Entry discount for early registration. (Contact: USSC, P.O. Box 331, Downers Grove, IL 60515)

September 25 Thirty-first Underwater Film Review, 8:00 pm, John Hancock Hall, Boston MA. Tickets $5. Make check payable to *Underwater*. (Contact: Fred Calhoun, P.O. Box 291, Back Bay Annex, Boston, MA 02117)

October 9 Sonoma County Diver Rescue Workshop at Santa Rosa Junior College. Diver awareness, safety, and emergency procedures. Pool and ocean training. (Contact: Virginia Bria, P.O. Box 3967, Santa Rosa, CA 95492)

skin diver

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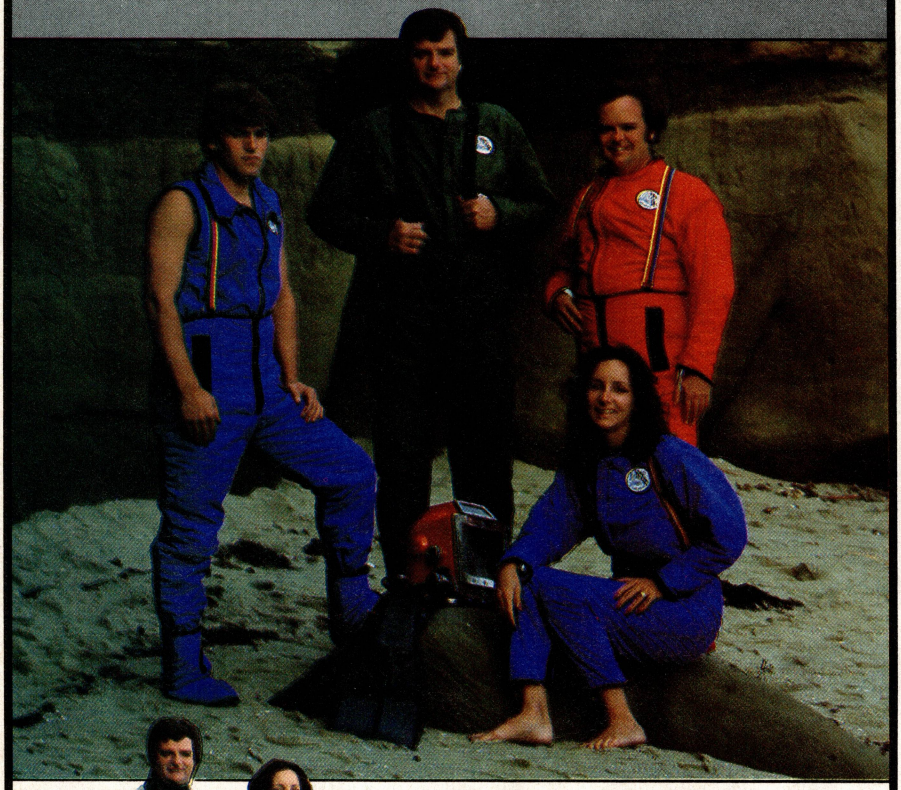
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Film Festivals 'n Symposiums

SAN DIEGO FILM FESTIVAL

The San Diego Underwater Photographic Society will hold its 18th Annual Film Festival on Friday and Saturday, September 10 and 11. Showtime at the Civic Theatre is at 8:00 pm.

Both evenings will have entirely unique programs with films by Jack McKenney, Bill Lovin, Chuck Nicklin, Ozzie Wissell and Stan Waterman. Slide shows by UPS members are also featured.

The host and master of ceremonies for the evening is Howard Hall. Hall has done filming for National Geographic Specials, NBC, ABC and CBS Sports. His articles have appeared in SKIN DIVER Magazine, Vista and International Wildlife. He is also the author of a new book, *Successful Underwater Photography.*

Tickets are available from local dive shops, the Civic Theatre Box Office and UPS members. Tickets are $7 per evening—open seating. Send inquiries to: San Diego Underwater Photographic Society, P.O. Box 82782, San Diego, CA 92138.

IQ 13

The Thirteenth International Conference on Underwater Education (IQ-13) has been entitled, The Diving Community: Growing and Maturing.

IQ-13 will be held at the Red Lion Inn, in Ontario, California (adjacent to I-10 and the Ontario International Airport), November 5, 6, and 7. It is sponsored by the NAUI Diving Association (NDA), a nonprofit organization made up of concerned divers, instructors and various others interested in the field of diving.

Some of the highlights include: an opening night social, sponsored by SKIN DIVER Magazine; a special limited engagement of The Stan Waterman Show, which will premiere his latest works; NAUI's presentation of the Deborah Brennan Memorial Scholarship on behalf of the Commercial Diving Center (CDC), Wilmington, California; and a chance to dive, tour and sightsee California.

All interested individuals and/or groups are cordially invited to attend the conference. If you would like to receive further information on exhibiting or attending please contact Sue or Ron Bangasser, 12724 Valley View Lane, Redlands, CA 92373; (714)794-4495.

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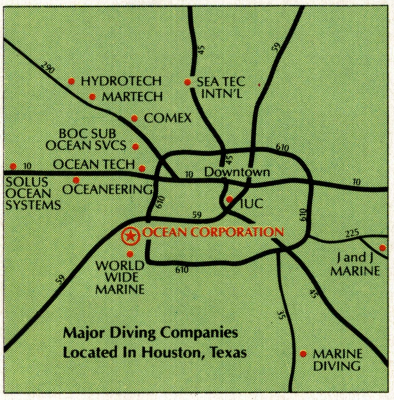


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Why Houston?

BECAUSE

The Ocean Corporation is located in Houston and more commercial divers are hired in Houston than in any other place in the world. Twelve diving companies are located in Houston including three of the four largest in the U.S. Many others are located in the nearby New Orleans area.The demand for divers is so great in Houston that large locally based diving companies like Ocean Systems, Hydrotech Systems, Martech International and Sea Tech International have hired many of our students for part-time work while they were attending school. Over 90% of our recent graduates went to work for these and other local diving companies when they completed our program. Houston is the place where the action is...the commercial diving, offshore construction and oil industry capital of the world.





BECAUSE

The Ocean Corporation is a commercial diving company, not just a school. Our facilities, equipment and training aids are the best, and our diving systems are as up-to-date as possible... because much of the equipment is used by our diving operations division to perform actual diving contracts in the field. Ocean Corporation has successfully completed many underwater jobs for various industrial clients over the years... including specialized underwater inspections, maintenance and repair work. For example, we did the world's first commercial underwater repair job in a nuclear power plant. And most of our divers have been graduates of our own school.

BECAUSE

The Ocean Corporation is a convenient and exciting place to go to school. Houston is one of the fastest-growing and most dynamic cities anywhere. It is a city of expansion, energy and youth (the average resident's age is in the mid-20's). Houston offers every conceivable kind of entertainment, from sports events, ultra-modern discos and open-air theater to rough-house local rodeos, chili cook-offs and the new Texas-size country-western dance clubs. Reasonably priced adult and single apartments are readily available within walking distance of the school, and fast-food to luxury restaurants are nearby. The semi-tropical climate is wonderful, the sport diving is great and the folks are friendly.





BECAUSE

The Ocean Corporation management and instructor staff have long-term experience in the international offshore oilfield diving business. Retired ex-military divers and sport scuba divers don't run the school...*commercial* divers do. For example, the President of The Ocean Corporation, Larry Cushman, was Vice President and Europe/Africa Area Manager for Ocean Systems, Inc. for three years...with responsibility for all North Sea diving and underwater construction operations. He also worked six years as a manager for Oceaneering International, Inc., another of the world's largest commercial diving contractors. Ocean Corporation managers and instructors know today's diving business...first-hand, from recent experience.

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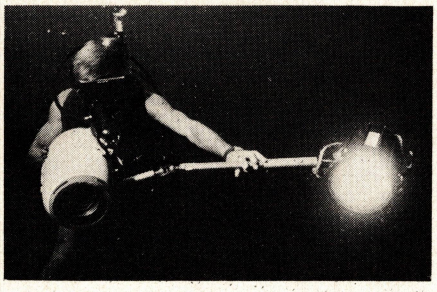
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MARINE GRAFICS FILM

Drifting, a new film by underwater cinematographer Bill Lovin, is the story of a woman's understanding of herself and the ocean she explores. Through the eyes of a woman and a seven year old



girl, *Drifting* offers an interpretation of diving that is very different from other underwater films.

Drifting was photographed in Cozumel, Mexico amid the splendor of Mayan ruins and on the reefs of Palancar. The 14 minute color film is available on 16 mm, Super-8 and videotape from Marine Grafics, Box 2242, Chapel Hill, NC 27514.

LIVING OCEAN SOCIETY FILMS

The Living Ocean Society has completed two films which will be available for film festivals and symposia. *Four Years With the Dolphins* is the story of divers who spent four summers with a friendly group of free dolphins in the Bahamas. Eventually they achieved a communication breakthrough with the dolphins, using underwater computers and sound generators.

The second film is entitled *Miracle of the Mantas* and depicts the rescue of a manta ray from entanglement in a fishing line. The diver then boards the back of the 14 foot ray for an underwater tour of a seamount in the Sea of Cortez.

Both films were produced by Hardy Jones with underwater cinematography by Howard Hall. Hardy is available with the films as a lecturer. For information contact: Living Ocean Society, P.O. Box 855, Sausalito, CA 94966.

MCKENNEY TO BAJA

Jack and Sari McKenney will be escorting a dive tour to the Sea of Cortez from September 12 to 25. Aboard the *Baja Explorador*, the group will anchor on a seamount 30 miles out of La Paz for six days. The remaining time will be spent at Isla San Diego and Isla Las Animas.

The trip costs $1,490 and includes diving, meals and air. Air fare and hotel accomodations for the two nights in La Paz are extra.

For more information contact Baja Expeditions, *Baja Explorador,* P.O. Box 3725, San Diego, CA 92103; phone (714) 297-0506.

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Technifacts

BY E.R. CROSS



A rapidly growing field of specialized skills for commercial divers is grouped rather broadly under the heading of non-destructive testing (NDT). This includes:

1.)Visual inspection for surface crack detection or other structural distortion.

2.)Magnetic particle inspection for surface and shallow subsurface crack detection.

3.)Ultrasonics for measuring thickness and surface or subsurface flaw detection.

4.)Corrosion potential (CP) measurements of cathodically protected structures.

5.)Radiography (X-ray) to detect cracks, broken wires or fittings and to measure thickness.

This Technifacts will discuss a procedure used in October, 1962 to make radiographs of damaged hoses in 65 feet of water.

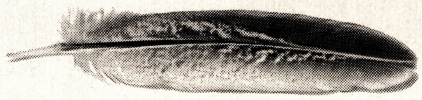
Radiography is primarily a flaw detection technique. X-rays, or gamma rays, from a radioactive source cast shadows on a special film. Voids, cracks or porosity in the solid permit more rays to penetrate and the differences in the shadows are recorded. The changes in the shadows are interpreted by a qualified NDT technician who evaluates the degree of damage or wear.

There are several features about underwater X-ray techniques of which divers should be aware. The first is safety. The Nuclear Regulatory Commission (NCR) has established a set of rules for handling radioactive material that personnel must comply with. Since the source for the gamma rays in underwater radiography is nuclear material, only personnel licensed by the NRC are permitted to handle it. Licensing usually involves training, experience and examination in subjects qualifying a person as an assistant radiographer. In some cases, divers are trained in the principles of radiography and perform the work under the direct supervision of a licensed radiographer. Interpretation of the radiographs is done by a topside NDT technician.

In the past, the primary use of underwater X-rays was for weld inspection. However, the technique can be used to detect breaks in wires or other fittings, cavities, porosity and other defects. The disadvantages of using X-ray techniques



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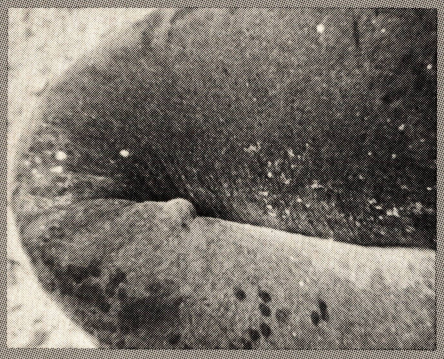
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underwater are: cost; difficulty in analysis in some cases; lack of sensitivity for small objects with a small diameter, and the safety of the personnel involved.

EXAMPLE

Two hoses in an underwater tanker discharge system had been very badly kinked with indications they were seriously damaged. Since the hoses had been recently installed it was decided to attempt an underwater X-ray inspection to determine the exact amount of internal damage.



The hose strings were first pulled into a straight line by tugs. When these were straight, another diver inspection was made and underwater photographs were taken to permit final planning for the X-rays.

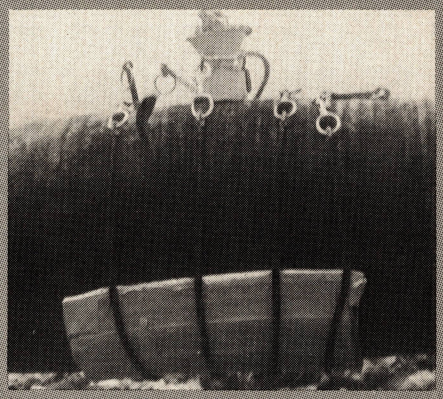
A firm with a licensed radiographer/sport diver was contacted. Diving support personnel and equipment were arranged and the job finalized.

Two hoses similar to those underwater were filled with water topside and test exposures made. It was determined that 58 minutes for 12 inch hoses and 69 minutes for 16 inch hoses would provide good exposures. In actual practice, at the offshore site, these exposures provided a dense, but readable negative.

Following analysis of the tests the radiographer and the dive support team proceeded to the tanker. The boat was securely moored over the hose string and the dive team prepared the hoses for radiography.

Underwater cassettes were prepared for the X-ray film. These were wrapped around the hoses and held in place by bungee cords with snaps and rings for quick attachment. The radioactive source, carried in a lead pot, was lowered to the radiographer/diver who, after placing penetratometers and proper indents, put the source holder and then the source in place. The divers and technician then surfaced, prepared a second cassette and pot for use on a 12 inch hose that had kinked in a previous tanker operation.

The lead pots were kept on the stern of the dive boat. The radioactive material was securely locked inside until the material was underwater and at the site. Only then was it removed from the pot and placed in a special container over the damaged area. Working in water reduces the radiation hazard since water absorbs a large amount of the X-ray energy released from the source. However, every precaution must be taken to prevent overexposure of personnel. Dosimeters were worn by divers and technician to measure radioactive exposure.



Underwater X-ray of hose bottom. Radioactive source placed on top of the hose.

A lead shield around the cone containing the source helps prevent backscatter. For thick material, such as a 12 or 16 inch hose filled with sea water or oil, cobalt 60 could be used as the source. For thinner material iridium 192 has been used. Industrix D, C, or M X-ray film can be used depending on needs.

Some of the larger dive service companies have well qualified, licensed per-



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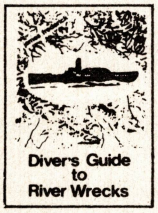
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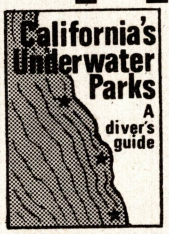


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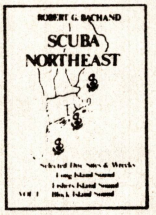
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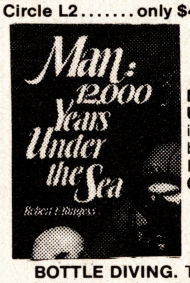
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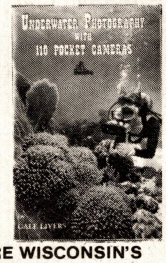
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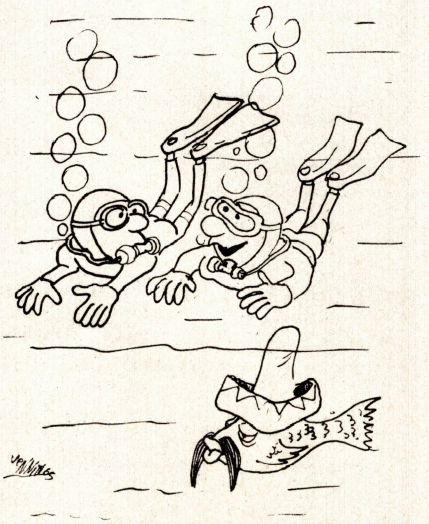
Heavy lead "pots" hold the radioactive source for making underwater X-rays or radiographs. Cone shaped devices hold source against object during exposure.

tries. Most of their radiographic work is done in dry habitats.

A Canadian firm, Can-Dive Services Ltd. of Vancouver, B.C. has developed equipment and techniques for making underwater X-rays of flat surfaces.

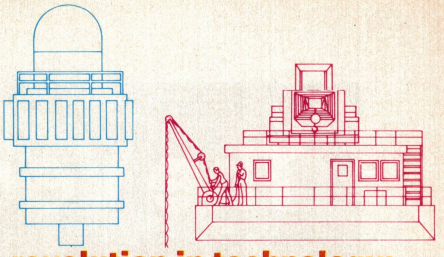
Oceaneering International of Houston, Texas has radiography teams and atmospheric equipment capable of carrying out this type NDT at any depth. Through their training facilities they also qualify divers for the various types of NDT work that meet or exceed the in-service inspection requirements set by certifying authorities.

Commercial Diving Center, Wilmington, California provides a course in NDT for divers interested in this rapidly expanding field of underwater work.



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The fact is:

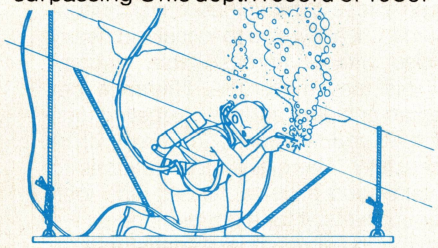
Oceaneering International designed Commercial Diving Center's training programs, moving over 40% of the graduates into key jobs under world-wide diving contracts. The others may opt to work for some 200 diving contractors who look upon C.D.C. as a producer of high-quality trainees ready to take on any job with any type of equipment.

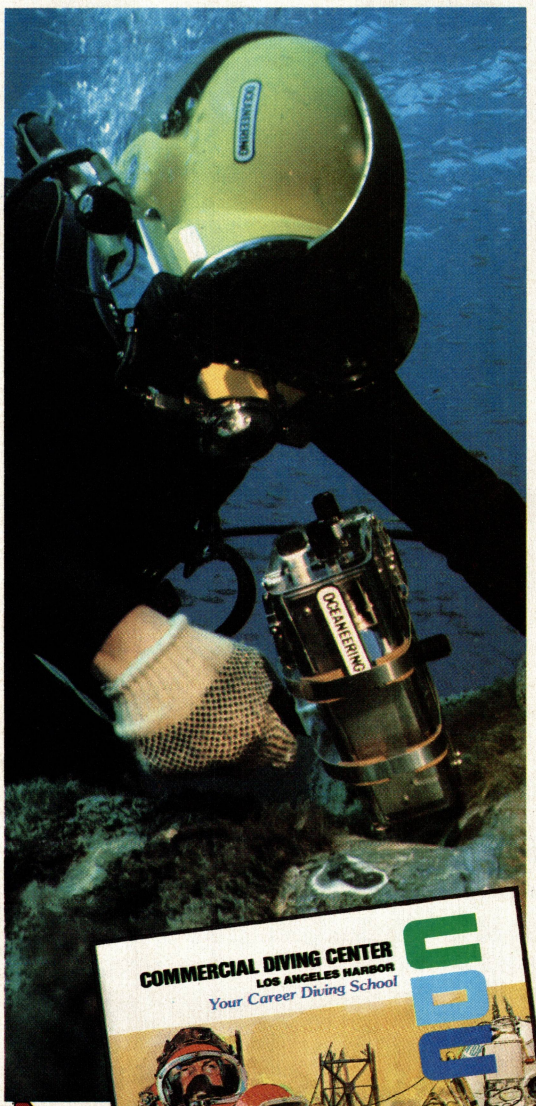
The reason is:

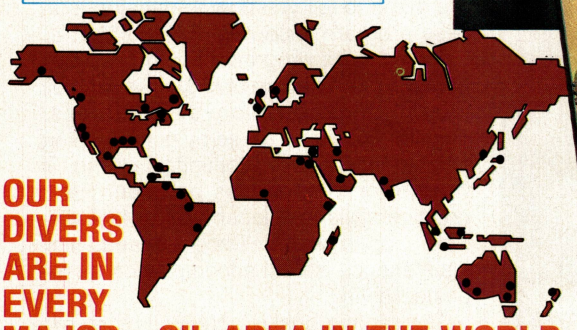
C.D.C. graduates are sought after as skilled specialists with a hands-on knowledge of the most up-to-date procedures and equipment. C.D.C. training programs are designed and constantly updated by O.I. At C.D.C. students will train on equipment they will actually use on the job in the off-shore oil diving operations.

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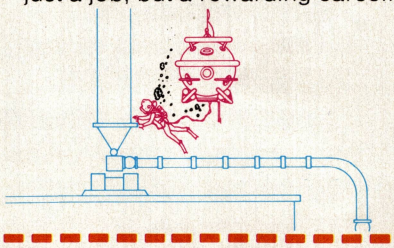
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Rx FOR DIVERS

BY FRED BOVE, M.D., Ph.D.

Last month we discussed heart problems and mentioned that good physical fitness was necessary for safe diving following recovery from any kind of illness. Actually, good physical fitness is important for all divers, including those who are healthy.

We continue to hear arguments that sport diving is not strenuous and conditioning isn't necessary. Those comments come from out-of-shape divers, while those who are in better condition usually have the opposite point of view. Our personal experience with novice divers indicates that a common source of diver panic is the feeling of breathlessness that occurs during long swims with full equipment. This occurs because the diver is not in good physical condition and the exercise load is near the diver's maximum capacity. This is always uncomfortable and, when coupled with breathing through a regulator or snorkel, fully dressed in dive gear and perhaps trying to get out of a difficult situation, the feeling can cause panic. Good physical conditioning will allow you to withstand heavy exercise without unreasonable discomfort. This may mean the difference between an accident and an interesting incident that you worked your way out of successfully. There are other reasons to maintain good physical fitness (you look better in a wetsuit for example) and so we are going to tell you how to develop a fitness program for diving.

Your fitness program should have two goals: 1) to maintain diving skills, and 2) to maintain good physical fitness. The first goal is achieved by good training and maintained by continued diving. If you go for long periods between dives, practice skills in a local pool before diving in open water. Once learned, skill maintenance is best accomplished by repeated diving.

The second goal is achieved by an exercise program which will improve physi-

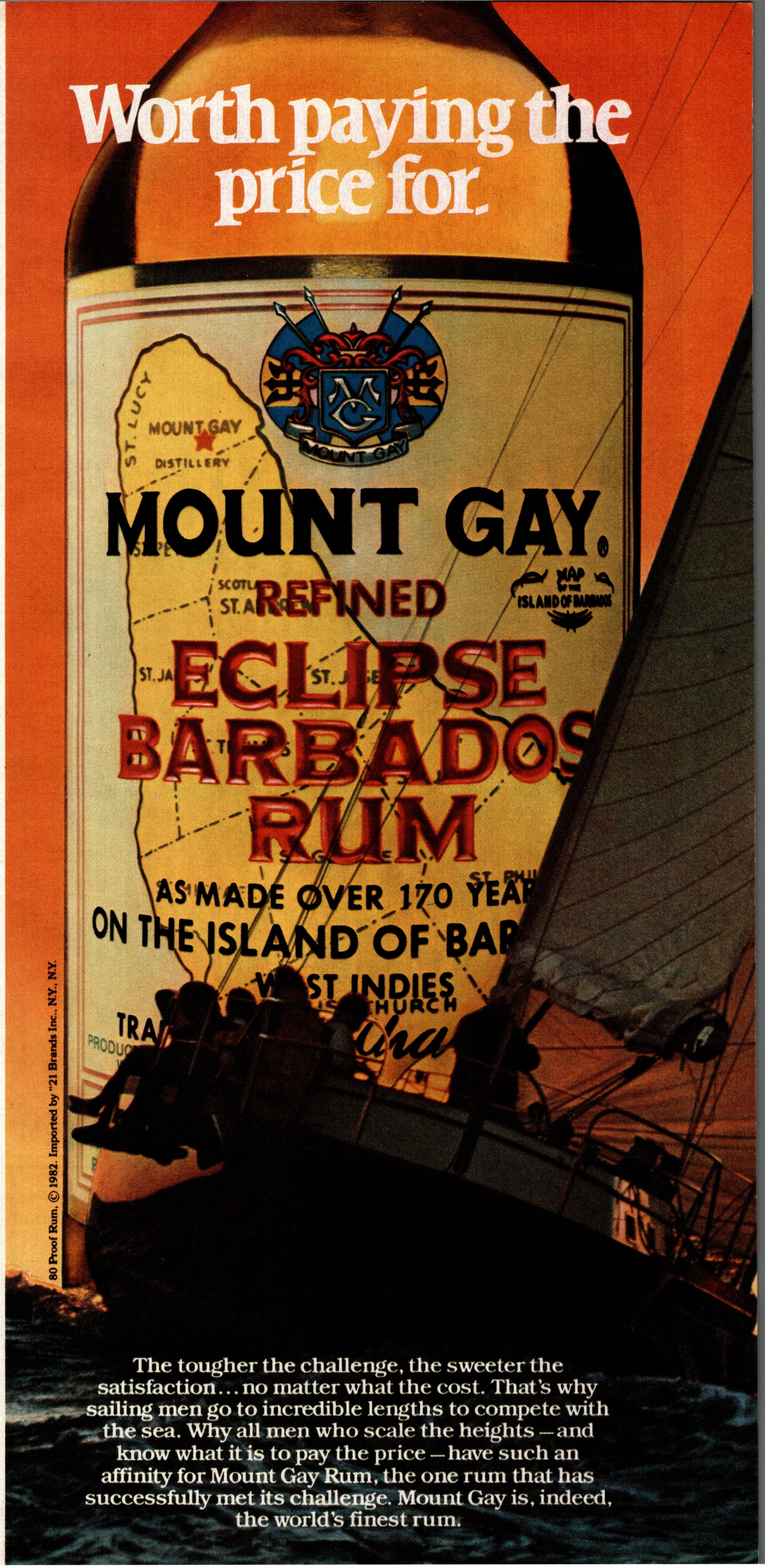
cal conditioning and strength. This program should have an aerobic component (swimming, cycling, jogging) and a smaller component of strength training.

The aerobic component of your training program requires that you exercise a minimum of four days per week for 35-40 minutes. More is better in this case, and less will not provide much benefit. There are a number of ways you can decide how to conduct these exercise sessions. You can do a variety of exercises, but one of them should be swimming with fins. You need this exercise to strengthen the proper leg muscles for use of fins, and at least one 35 minute exercise session a week should be devoted to it. You can also improve your physical conditioning with bicycling (stationary or otherwise) and with jogging. A mix of all three will give different muscles a workout, and will minimize bone and joint problems that many people get with a total jogging program. A good program, for example, is two days of swimming, two days of jogging and a day of cycling.

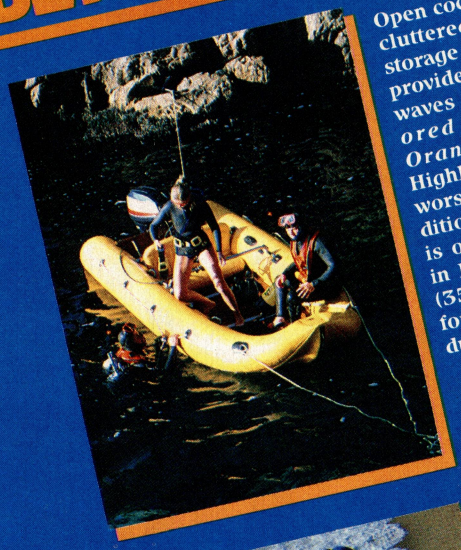
After deciding what exercises to do, you must now decide how hard to exercise. An easy and reliable way to arrive at the level you need is to exercise to a target heart rate. We frequently use this concept for exercise prescriptions with excellent results. To decide on your target heart rate, a simple formula is: target heart rate = 0.7x(220 - age). So if you are 30 years old, 220 - 30 is 190 (this is your maximum heart rate) and your target heart rate is 0.7 x 190 = 133/minute. You would then start your exercise session with three to five minute warmup (a must), then increase the speed of swimming, cycling, or jogging until your heart rate is 133/minute (22 beats in 10 seconds), continue at that level for 20-25 minutes, then reduce your pace for a five minute cool-down period before you stop. For the first few exercise sessions, you should stop briefly and check your pulse to get a feel for the speed you need to achieve your target rate. You should be able to exercise comfortably at this heart rate, and feel a moderate amount increased breathing (if you are jogging, it's just enough to keep you from talking comfortably—a boon to your friends)

Maintaining your exercise at the target heart rate will get you into better shape. As you improve, you will find yourself having to work harder to get to the same heart rate. To check your progress, record how much distance you cover during your 20 to 25 minute session. A good measure of improvement is an increase in the distance you complete in a given time at your target heart rate.

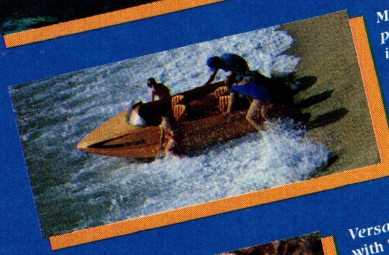
For those of you who would like to add strength exercises, one or two 20 minute workouts a week on a universal gym will help, or you can do repetitive lightweight exercises at home. If you do fairly strenuous weight or resistance exercises, your heart rate will go higher than the target rate, but these responses only last a few



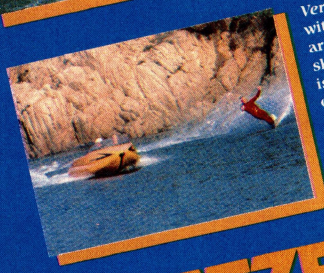
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minutes and should cause no problem.

There are some precautions which should be mentioned. First, if you are over 40 years old and have not exercised recently or are younger and in very poor condition, we recommend checking with your physician before starting a fitness program. Under these conditions, a medical evaluation and an exercise stress test are usually needed to be sure you can exercise safely. These same precautions apply if you have any illness that can limit your exercise capacity.

Safe diving demands an investment in good equipment, good training, and good physical condition. A compromise of any one can make diving unsafe. Invest in all three.

UNEXSO SURVIVAL COURSE

UNEXSO's new Living Off the Sea is a subsistence/survival course conducted on Grand Bahama Island.

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For more information, write UNEXSO, P.O. Box F-2433, Freeport, Bahamas; or call (809) 373-1244.

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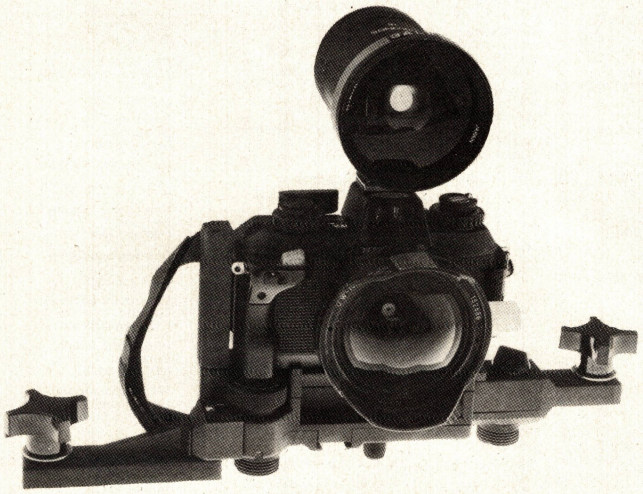
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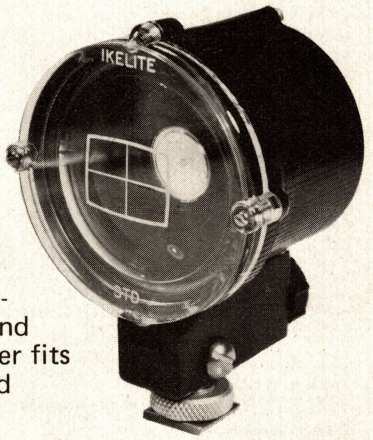
This light is available in white, clear or black. It uses a standard 6 volt lantern battery (not included) and a sealed beam bulb. Unquestionably the brightest and most dependable diving light in its price range.



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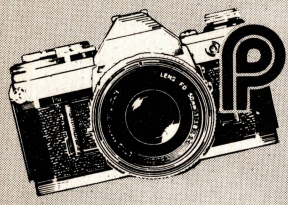
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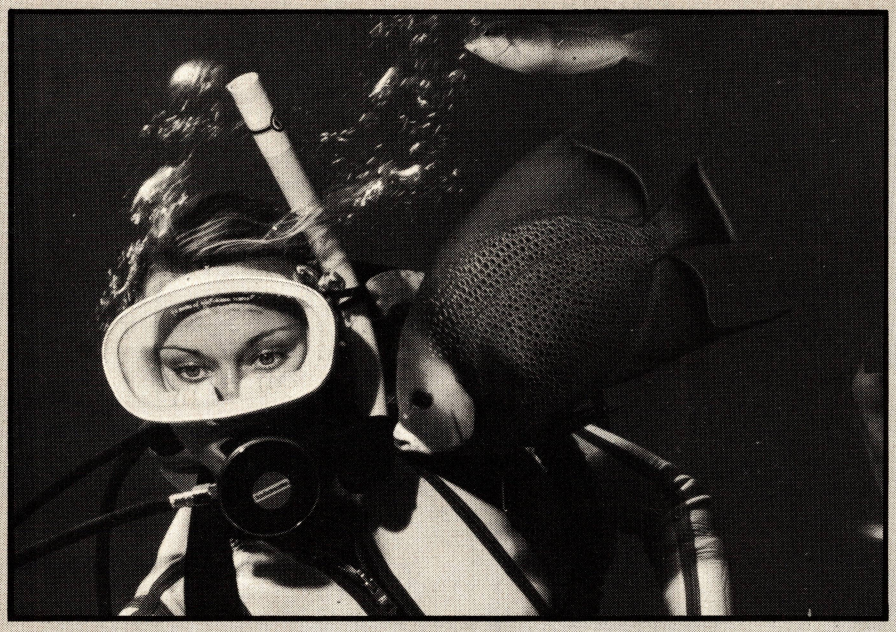
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Local winners are entered into the International Competition. The ten Regional Winners (nine U.S. regions, one international) chosen receive custom 16 x 20-inch color prints of the winning slides (compliments of Scuba Chrome); publication in *Skin Diver* Magazine and *The Undersea Journal;* and entrance into the Grand Prize judging.

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COMPETITION RULES

1. The PADI Underwater Photography Search/Competition is open to all amateur photographers. **Only underwater photographs will be accepted.**
2. *All entries must be submitted to a participating facility for local judging.* **Local winning entries will then be sent to PADI Headquarters for international judging. Applicants may enter as many photographs as they wish; photographs may have been taken any time with no geographic restrictions.**
3. Contest theme is *"Divers Having Fun."* Winners shall be chosen in one category: color slides. **Participant's name, address, telephone number, facility name, and the title of the photo must be printed clearly on each entry.**
4. An entrance form and a $4.00 fee per entry to the participating Training Facility shall accompany all photographs submitted. The completed form acknowledges reprint rights for PADI International when proper photographic credit is given, and allows PADI to print and sell the Grand Prize winning photograph as a poster with 5% of the wholesale price paid in royalties to the photographer. The utmost care and handling will be given all entries, but no responsibility will be assumed by PADI International or any PADI Training Facility. Photographers retain ownership, and all entries will be returned after the judging has been completed.
5. Local judging will be done by PADI Training Facility staff members; international judging will be done by the PADI Underwater Photography Search/Competition Committee.
6. **Winners will be chosen by a point system based on technique, lighting, and composition.** Vertical format is preferential. Decisions by the judges will be final.
7. The Search/Competition shall begin August 1, 1982 and end September 30, 1982. Regional and Grand Prize Winners will be announced in Spring 1983.

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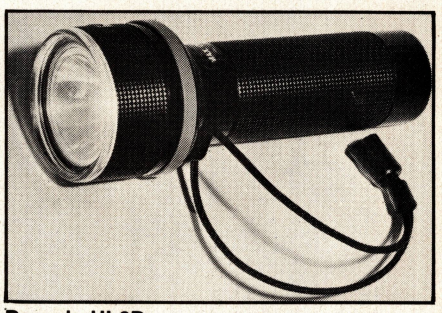
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EXCUSE US

The New Gear section in our July issue featured a description of two dive lights from Scubapro—the Scubalight and Minilight. Unfortunately, the photo was actually of Dacor's UL2D light.

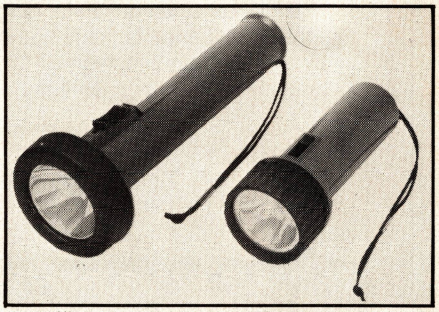
The UL2D (model number 7013-00) is only seven inches long but projects a



Dacor's UL2D

powerful beam. Its twist on and off mechanism eliminates switch failure. The light has a black ABS body with a polycarbonate lens. It has a maximum operating depth of 300 feet and will operate continuously for 12 to 16 hours on two fresh D cells. The lanyard is included in the price of $18.95.

The Scubapro Scubalight and Minilight are both O-ring sealed and incorporate



Scubalight (right) and Minilight (left).

magnetic reed switches. Both are watertight to 200 feet and come with a lanyard.

The Scubalight (right) has a protective rubber lens cover and will operate for 13 hours on a fresh set of alkaline cells.

The larger Minilight (left) has a battery pack which can be operated on either four or eight AA batteries. A spare bulb mounts inside the light. The Minilight costs $34 and the Scubalight is $26.

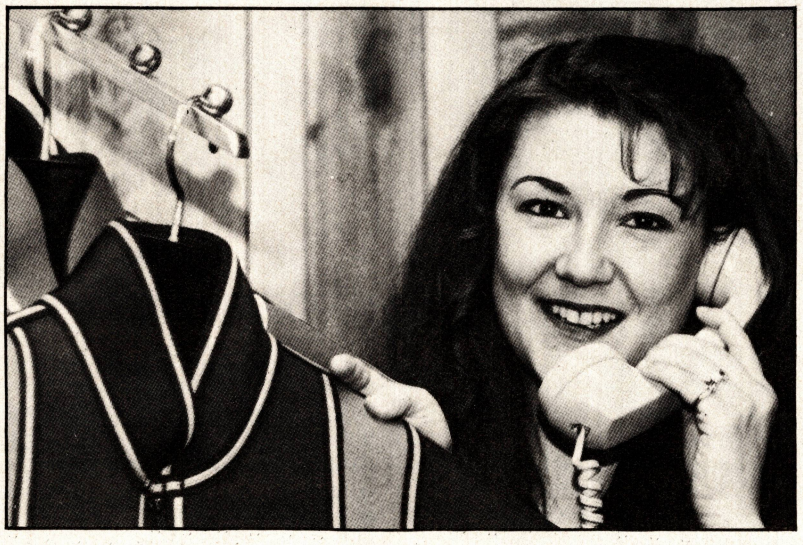
OMORKA OUT

After six years of operation, Omorka Tours, Inc. is withdrawing from the tour reservation business, owing to current economic conditions and circumstances. Effective June 1 Omorka Tours ceased to operate in the manner in which it had in the past. However, Dan Conaway, president, will continue to be involved in private hotel representation and specialized consulting.

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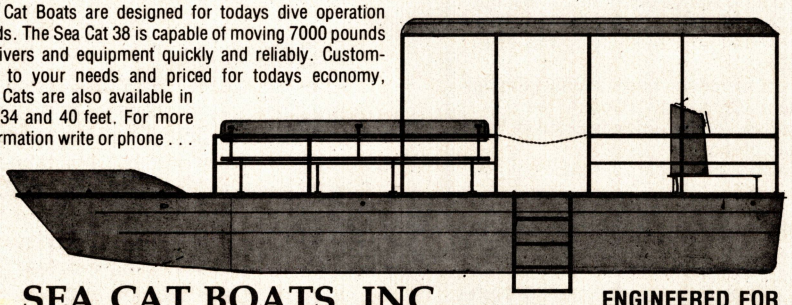
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YMCA COURSE

A course providing YMCA specialty certification as a diver medic will be held at James Madison University in Harrisonburg, VA during September. Course instructors include YMCA scuba instructor and diver medic program chairman Thomas Doubt, Ph.D. Dr. Doubt is a staff member of the Hyperbaric Medicine Program Center at the Naval Medical Research Institute, Bethesda, MD. Doubt will provide instruction in decompression sickness, pulmonary barotrauma, thermal problems, gas problems, and chamber operations.

YMCA scuba and SLAM instructor Ken McCracken will instruct on first-aid and transportation for shock, heart attacks, near drowning, hypothermia, hyperthermia, and on oxygen delivery. He is an emergency medical technician lay instructor and shock-trauma technician.

The course will be held from Sept. 3 thru 5. Prerequisites include scuba certification, logged one-year dive experience, CPR certification, and medical exam.

Pre-registration is required. For more information, contact Ken McCracken, Land/Sea Passages, 14 E. Water Street, Harrisonburg, VA 22801.

UCI COURSE EXPANDED

Underwater Careers International has expanded its resort operations specialist program. The program will now include five days of practical experience as a working divemaster on Cozumel in the Mexican Caribbean. Host for this unique phase of training will be Fantasia Divers.

These five days of intense on-the-job training and experience will enable students to gain a thorough understanding and appreciation of the various aspects of resort operations. In addition, students will also complete PADI specialty training in the areas of night diving and underwater photography, thus qualifying them for the rating of PADI master scuba diver.

The dive boats and facilities of Fantasia Divers will serve as the classroom while students act as divemasters and escort groups to reefs and drop-offs. Evening sessions will be devoted to classroom instruction in underwater photography and other resort operational procedures; but sufficient time will be available to enjoy the colorful nightlife of the island.

Accommodations will be provided by La Cieba Beach Hotel.

As in the past, UCI will continue to offer job placement assistance to all qualified graduates. For more information contact Underwater Careers International, 6023 Hollywood Blvd., Ft. Lauderdale/Hollywood, Florida 33024; (305) 981-0156 or 963-5255.

ZEPHER: T.M.

Tomorrow's Standard For Today's Scuba

The SEAPRO ZEPHER Is The Best Regulator On The Market! Here's Why:

ZEPHER eliminates the mechanical resistive forces associated with operating the conventional second stage regulator by employing a servo-controlled, pressure activated flow valve. Upon inhalation, supply air pressure provides the energy which opens the flow valve for the diver. The result is a sensation of breathing underwater similar to normal breathing, independent of depth, or breathing rate.

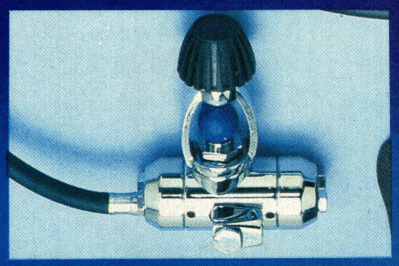
Moreover, because ZEPHER's flow valve is pressure activated, internal passages are much larger, providing peak flow capacity nearly double that of any other second stage regulator!

Optimum Performance with Complete Stability

Unlike the other servo designs ZEPHER is not troubled with characteristic servo instability. By incorporating control feedback, pressure balancing and a novel mouthpiece flow straightener, ZEPHER offers optimum performance with complete stability over its entire operating range.

Unusually Low Exhalation Effort

ZEPHER's unique inhalation diaphragm assembly also functions as the exhaust valve. Combining the inhalation and exhalation functions into a single diaphragm assembly eliminates wasteful air loss into the water, regardless of the diver's orientation.



SEAPRO Z-55™

The only twin-piston/automatic reserve first stage regulator on the market! The perfect match for ZEPHER.

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ZEPHER is equipped with a safety 'Lockout' button which prevents inadvertent air flow when the supply is turned-on but not needed.

Operational Simplicity and Low Maintenance

ZEPHER, conceived and developed by Tony Christianson, Ph.D., has fewer component parts than your favorite ball point pen! Owner maintenance and periodic dealer servicing is a breeze.



Patent No. 4,297,998 Worldwide Patents Pending

ZEPHER and the Z-55 are the air delivery components of Seapro's new Z-60™ diving system. See the complete Seapro line at your professional Seapro dealer or write Seapro for a comprehensive brochure.

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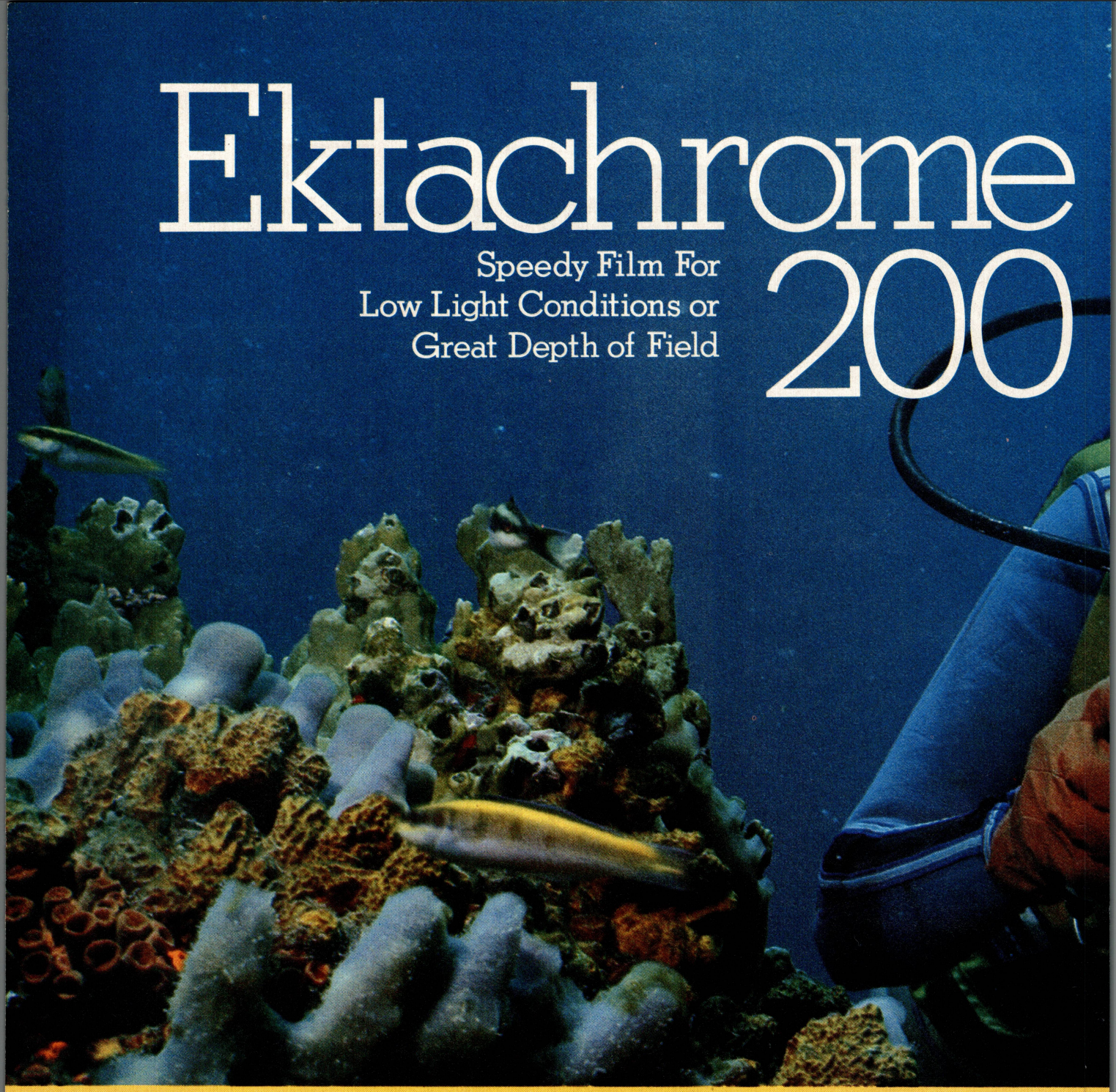
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Ektachrome 200

Speedy Film For Low Light Conditions or Great Depth of Field



TEXT AND PHOTOGRAPHY BY JIM AND CATHY CHURCH

If you're looking for a high-speed color slide film for both topside and underwater use, Kodak's Ektachrome 200 may be what you need. With an ASA of 200, this Ektachrome requires less light than films with lower ASA ratings. Thus, depending on the situation, you can (a) use smaller apertures, (b) faster shutter speeds or (c) take pictures when the light level is too low for slower films.

TOPSIDE PHOTOGRAPHY

For topside photography in bright, sunny conditions, the biggest advantage of Ektachrome 200 is that it allows you to stop action with faster shutter speeds. When you are handholding your camera, especially if you are on a moving boat and photographing moving subjects, it is difficult to get really sharp pictures with shutter speeds slower than 1/250 second. And, at 1/250 second, your aperture (in bright sunlight) would probably be f22—which gives maximum depth of field. With slower films, increasing shutter speed forces you to use wider apertures (lower numbered f stops) which reduce depth of field.

With telephoto lenses, the increased shutter speed becomes even more important because the longer the lens (greater the focal length), the greater the effect of camera movement on picture sharpness. As a rough estimate, the minimum shutter speed with a handheld camera equals the focal length of the lens. With a 105 mm lens, for example, the minimum shutter speed would be about 1/100 second. And, when you add the problems of holding a camera steady aboard a moving boat, 1/100 second is too slow!

In low light conditions, you can take pictures in open shade at 1/125 second, f8; interiors with bright fluorescent light-



ing at 1/30 second, f4; and brightly lighted downtown night street scenes at 1/30 second, f2.8.

ADVANTAGES

Underwater, Ektachrome 200 can be a blessing if you are using a 35 mm camera with a lens having a focal length of 35 mm or more. This includes the Cosina Marine and Formaplex cameras as well as many housed 35 mm cameras and the Nikonos.

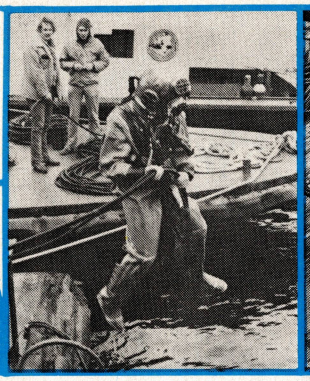
These lenses are often used at apparent distances of about three to five feet. And, at these relatively close camera-to-subject distances, depth of field is severely reduced at wide apertures. If you have a 35 mm lens handy, pick it up and set it for four feet and f5.6. Notice that the indicators show depth of field from about 3.5 to slightly less than five feet. This means that subjects closer than 3.5 feet and further away than five feet will not be sharply focused. Therefore, if you have both far and near subject areas that are important to your picture and must be sharply focused, these areas must all fall within that narrow zone.

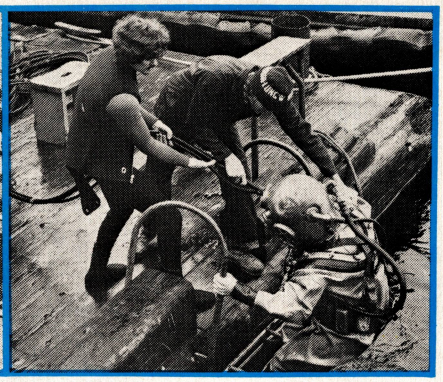
The f5.6 example above was based on the average strobe exposure, and average sunlight exposure at about 35 feet in tropical waters, with ASA 64 color film. If you had used Ektachrome 200, you could have closed the aperture by almost two full stops—one and two-thirds, to be exact. Looking at the camera lens again, and changing the aperture to a little less than f11, you can see that the indicators show depth of field from about three to six feet.

With depth of field almost doubled, it is easier to have both near and far subject areas sharply focused. And, as an added benefit, your errors in estimating camera-

(Continues on Page 80)

MAN IN THE SEA





ARE YOU READY FOR THE CHALLENGE?

"Our destiny is linked to the fate of the oceans, and, ironically, we will determine the future of the sea through our actions in the next few decades," declares Dr. Sylvia Earle, who on September 19, 1979, walked on the sea floor, 1,250 feet below, for two and one-half hours. Dr. Earle's statement supports the continuing need for qualified commercial divers. Your entry into the world of deep sea diving will be a most prestigious and rewarding career. *Well-trained divers are in demand not only in the oil industry, but also in underwater salvage, construction, farming and environmental awareness.* Your first step to employment as a commercial diver is superior training.

Divers Institute of Technology (DIT) was founded by men who have successfully met the challenges of innerspace. These men know from experience what it takes to get the job done. Retired Navy and professional deep sea divers joined forces over 14 years ago to establish a commercial diving school that would train and graduate only qualified entrants to the industry. *The success of the DIT program can be measured by the continual expansion and improvements to our physical location and facilities, by our accreditations, credentials and unequaled curriculum and by the over 1400 graduate divers we have supplied to major commercial diving firms throughout the world.*

Divers Institute of Technology developed a six-month course that set an industry standard. Training is based on a highly sophisticated deep sea diving program that prepares you both mentally and physically to enter this new environment. DIT's curriculum has been designed to prepare you for gainful employment in *all fields* of commercial diving, *not only in the oil industry.* Some of the fields DIT graduates are currently working in include salvage and repair, inspection, aquaculture, scientific data research and the offshore oil industry. Classroom instruction deals in facts and theory. Open water instruction gives you the practical application of classroom techniques. *The culmination of your training is actual dives to depths of 200 feet. To our knowledge, we are the only commercial diving school that puts you to this test. The confidence gained from this experience is unequaled.* Before you decide which school to attend, check this point out. Many schools provide only simulated deep dives in recompression chambers and diving tanks on dry land.

After proper training and graduation, you are prepared to enter the commercial diving field. It is then that you realize just how much responsibility comes with the territory. Responsibility to perform the tasks you were trained to do! Responsibility to your diving team and responsibility to all support personnel. *DIT will not graduate a student unless confident he possesses the ability to become a top rate commercial diver.* Divers Institute of Technology training facilities are practical. *Our site of instruction is located on the Lake Washington ship canal where water is murky and the visibility is poor; the type of environment you will be exposed to in the field.* The equipment used in training is also what you will find in the field. Of the nearly 6 billion acres of continental shelf in the world, 78% has yet to be explored. Investigate DIT now . . . judge for yourself who's best qualified to train you right!

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Scuba Quiz

Category: J-Valves

By Dennis Graver

Nearly half of the scuba tanks in use have J-valves. Submersible pressure gauges have not eliminated the value of this valve as an active reminder of low tank pressure. If you own a J-valve or have occasion to use one, this quiz will interest you. You might even learn something new to save you money and increase your safety. The answers are on the following page.

1. J-valves are so named because:
- ☐ A. They were originally listed as item J in an equipment catalog
- ☐ B. The interior mechanism of the valve is J-shaped
- ☐ C. The letter J is representative of the pull rod used to activate the reserve mechanism

2. The purpose of a J-valve is to:
- ☐ A. Allow safe use of all available air
- ☐ B. Allow a safe, normal ascent at the end of a dive
- ☐ C. Keep water and contaminants out of the tank by preventing total air depletion
- ☐ D. Eliminate the need for dangling submersible pressure gauges

3. A J-valve operates on the principle of:
- ☐ A. Aerohydraulics
- ☐ B. A restricted orifice
- ☐ C. A spring-loaded valve
- ☐ D. A downstream valve

4. The pressure at which a J-valve operates is:
- ☐ A. 300 psi
- ☐ B. 500 psi
- ☐ C. 300-500 psi
- ☐ D. 250-650 psi

5. The pressure at which a J-valve operates underwater is:
- ☐ A. Gauge pressure
- ☐ B. Absolute pressure
- ☐ C. Ambient pressure
- ☐ D. Atmospheric pressure

6. When filling a tank equipped with a J-valve, the valve must be:
- ☐ A. Up, in the reserve position
- ☐ B. Down, in the non-reserve position
- ☐ C. Down for the first 500 psi, then up for the remainder of the fill
- ☐ D. Mid-way between the reserve and non-reserve positions

7. When twin tanks are equipped with a J-valve on one tank and the valve operates at 500 psi, the pressure in each tank after the valve is activated will be:
- ☐ A. 500 psi
- ☐ B. 250 psi
- ☐ C. Less than 500 psi at depth
- ☐ D. Less than 250 psi at depth

8. J-valves are built into some regulators as well as into valves. When a J-valve regulator and a J-valve on a tank are used together:
- ☐ A. The reserve pressure is doubled
- ☐ B. The reserve pressure is halved
- ☐ C. The reserve pressure remains the same, but both valves must be activated
- ☐ D. Neither J-valve can be used due to compounded air flow

9. For diving, the J-valve lever should be:
- ☐ A. Up at the start of the dive
- ☐ B. Down at the start of the dive
- ☐ C. Left up if a submersible pressure gauge is used
- ☐ D. Left down if a submersible pressure gauge is used

10. Which of the following statements is true:
- ☐ A. Storing a tank with the J-valve spring compressed (lever down) shortens the life of the valve
- ☐ B. The reserve mechanism of a J-valve is normally closed when the valve lever is up, a regulator is attached, and the air is on
- ☐ C. Tank valves receive about the same frequency of service as tanks and regulators
- ☐ D. None of the above statements are true

scuba Quiz

Answers: J-Valves

1. A. They were originally listed as item J in an equipment catalog. When U.S. Divers Company put out its first catalog, valves were listed as items J and K with J being the reserve valve. These letter designations caught on and have been used ever since.

2. B. Allow a safe, normal ascent at the end of a dive. There are many advantages to keeping some air in a tank, but the most important is to enable a diver to ascend slowly, safely and comfortably. A J-valve is not to be used to extend bottom time during dives and certainly does not eliminate the need for a submersible pressure gauge.

3. C. A spring-loaded valve. In nearly all J-valves, a spring pushes a valve against tank pressure. As long as the tank pressure exceeds the spring pressure, the valve can be opened by the air pressure. When the spring pressure exceeds tank pressure, the valve closes, keeping a reserve of air in the tank until the valve is reopened by manually compressing the spring via a lever and a cam.

4. D. 250-650 psi. Some reserves are designed to operate at about 300 psi, while others are set for about 500 psi, and still others are adjustable. The pressure varies greatly from one valve to another owing to the type of spring used and strength variations within springs of the same type. It is important to know the pressure at which your J-valve operates. Be sure that the valve activation pressure represents approximately 15% of your total air supply.

5. A. Gauge pressure. Tank valve pressures do not compensate for increased pressure underwater the way a regulator does. This means that a reserve that operates at 300 psi gauge pressure at sea level will still operate at that same pressure at depth. This poses a problem because air is available only as long as the tank pressure is greater than ambient pressure. Be aware of this on deep dives or dives where you must first descend in order to get back to the surface. Of course, the additional air in the tank becomes available during an ascent.

6. B. Down, in the non-reserve position. The valve is in the air flow path and is held closed by its spring. High pressure air from the filling hose will force the reserve valve closed even more. This will damage the seat of the reserve valve and affect its operation. Be sure your tanks are filled properly by presenting them for filling with the J-valves in the down position.

7. B. 250 psi. When twin tanks are used, the full reserve pressure will be maintained in one tank while the other tank is depleted to ambient pressure. When the J-valve is activated, the pressure in the two tanks will equalize to just slightly more than half of the reserve pressure. (There was *some* pressure left in the non-reserve tank.) For this reason, the reserve pressure is set higher for twin tanks than for a single unit.

8. C. The reserve pressure remains the same, but both valves must be activated. The valves in this situation operate in series, so both function as reserves and both will have to be opened to obtain air at low tank pressures. A dual J-valve arrangement should be avoided, but if it cannot, place one valve in the non-reserve position and leave it there so only one lever will need to be operated when reserve pressure is reached.

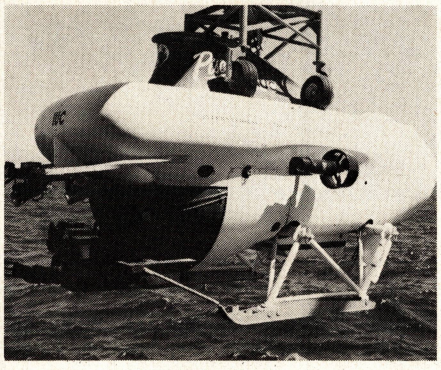
9. A. Up at the start of the dive. In this position, which is standard, the valve will maintain an air reserve. J-valve levers are easily bumped, however, so when using one develop the habit of checking it frequently during your dives to ensure that the lever is in the correct position.

10. D. None of the above statements are true. Surprised? Studies have shown that lever position has no effect on the life of valves, which are frequently overlooked when other scuba equipment is serviced. Carbon dust or rust in your valve can quickly affect your regulator, so at least have your valve inspected when other items are being serviced. It is a misconception that tank pressure holds a reserve valve open. The valve actually closes after each breath.

Many times we take our equipment for granted because it is rugged, and dependable. Knowing more about it helps us use it more effectively, and helps us extend its life. Equipment specialty courses will provide you with more of the type of knowledge shared in this quiz. Seek out a course in your area and sign up today. You'll enjoy the experience and probably learn enough to save more on your gear than the course will cost. Remember also to have your scuba equipment, including tank valves, serviced annually by a professional repair facility. Even if you are knowledgeable about equipment, don't attempt self-service.

PISCES SETS EXPLOSIVE CHARGES

The *Pisces VI* submersible recently set another underwater work record while demonstrating its deep-diving versatility. In April, the two man vehicle used its manipulators to place a chemical explo-



sive charge into a permanent guide base (PGB) funnel in 1,263 feet of water offshore Italy. The submersible surfaced and the charges were remotely detonated from topside.

On the same job, *Pisces VI* threaded the drill pipe with the running tool used to hoist the PGB. The sumbersible is capable of dives to 8,300 feet. The *Pisces VI* is operated by International Underwater Contractors of City Island, New York.

WATER TEMPERATURE GUIDE

With the arrival of summer, those planning an East Coast beach vacation will benefit from a brochure just released by the National Oceanographic Data Center (NODC) of the National Oceanic and Atmospheric Administration (NOAA). NODC's Water Temperature Guide to Atlantic Beaches provides average water temperatures for 35 sites from Eastport, Maine to Key West, Florida, including Puerto Rico and Bermuda. From April through October biweekly averages are provided to help show the more dramatic temperature changes in spring and fall and to coincide with average vacation periods. The guide is tailored to those interested in swimming and fishing.

A further aid to fisherman is a listing of popular East Coast game fish and their temperature preferences. For swimmers there are safety tips related to water temperatures. In addition the guide provides a list of related marine publications and how to order them.

Most of the water temperature data for the guide was furnished by NOAA's National Ocean Survey and was summarized at NODC. This guide is the first in a series that will cover the U.S. coasts. It is available from: NODC, D721, NOAA, Washington, DC 20235.

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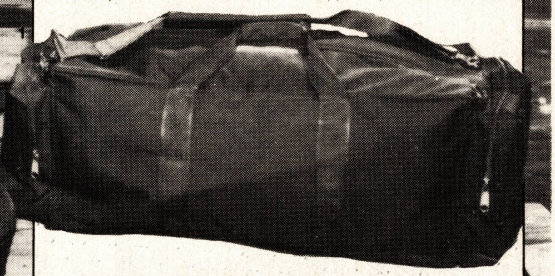
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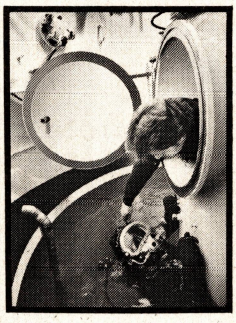
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Chronosport's Golden Dive Watch

An 18Karat beauty

BY BONNIE J. CARDONE

Golden: The very word conjures up magical visions of great beauty. There are golden girls, golden years, golden meadows, golden dubloons, golden rings. And, Brian Pennell thought there should be a golden Chronosport. That was two years and a few technical problems ago, but, Pennell, president of the company, persevered and the result is the watch shown on this page.

Officially known as the Chronosport Universal Diving Timer Quartz Multifunction Chronograph, this watch with a name as long as a pedigree is 18 karat gold. It is a beautiful, expensive, dive watch that performs a multitude of time keeping functions. There are two ways to read the hours/minutes—from the conventional dial face (analog) or the Liquid Crystal Display (LCD). This latter can be set to time in another zone; show seconds/date; or be used as a stop watch. The golden UDT has a scratch resistant sapphire crystal, a protected, screw-down crown and a one-way bezel. Pressure tested to 330 feet, it is accurate to within 60 seconds a year. It has a two year quartz battery and comes with a limited, 12 month warranty. The bracelet has integrated 18 karat gold links with a hidden, fold-over buckle.

Obviously, this golden beauty is not for everyone. It costs about $9,000 and, at the moment, comes only in a man's model.

By the way, yes, the gold in the photograph is real. We borrowed it from Johnson Matthey Limited of Los Angeles. A refiner and assayer of precious metals, this firm has been in business for 165 years. The big gold bar weighs one kilogram (2.2 pounds) and was worth about $10,585 at the time of this writing. The one ounce gold bar was worth more than $300.

Coincidentally, the introduction of the golden UDT marks the tenth anniversary of Chronosport's founding. If you're interested in the watch, see your Chronosport dealer. For more information write: Chronosport, Inc., 119 Rowayton Avenue, Rowayton, CT 06853;(203) 853-9593.

PPC staff photo/Jim Brown

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***Function:* Depth Indicator (Depth Gauge)** A highly visible red arrow continuously indicates a diver's present depth at any time during the dive.

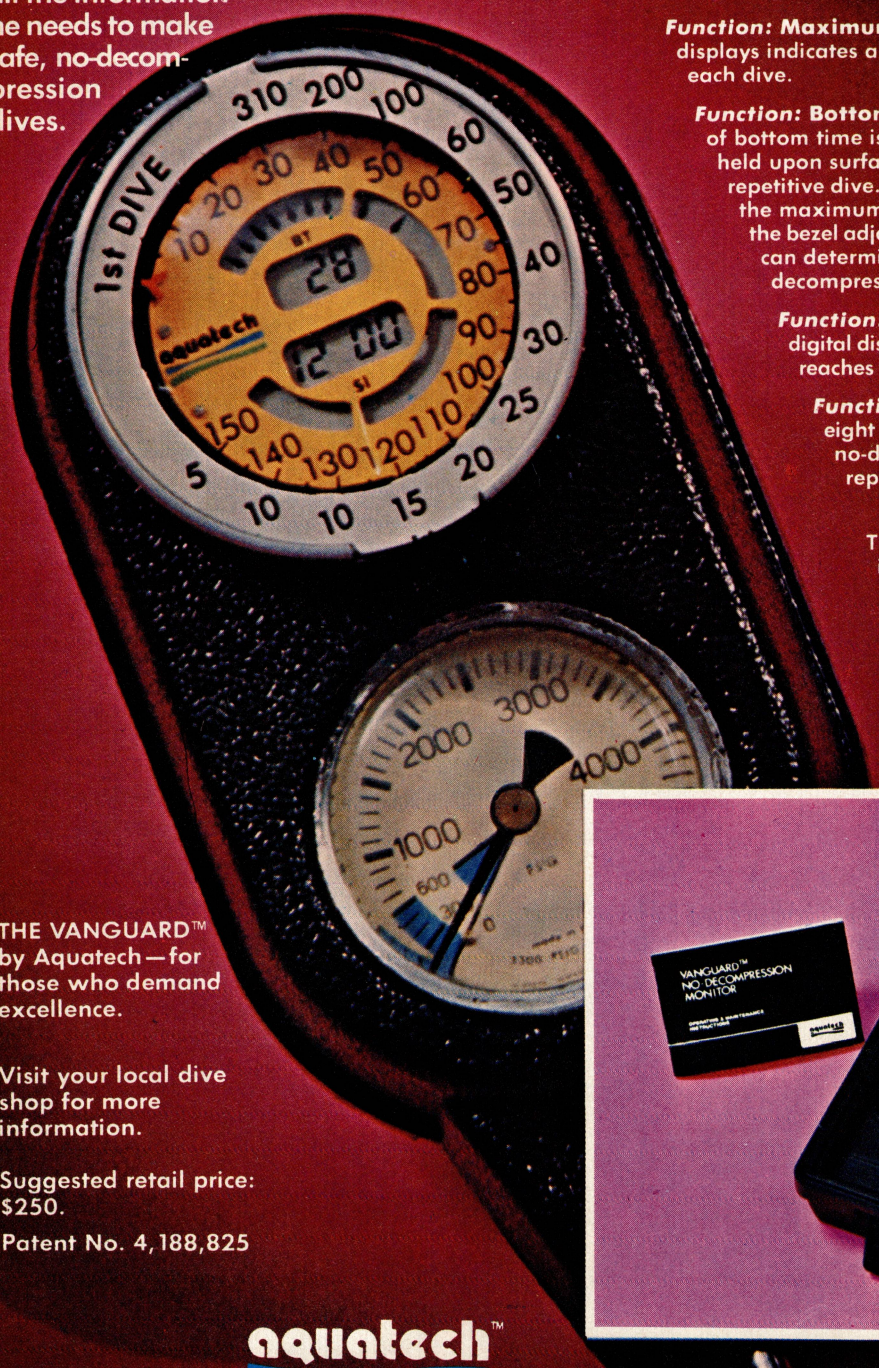
***Function:* Maximum Depth Indicator** A series of arrow displays indicates a diver's maximum depth reached during each dive.

***Function:* Bottom Time Display** Continuous digital display of bottom time is automatically activated upon descending, held upon surfacing, and reset upon descending for a repetitive dive. By comparing his bottom time displayed to the maximum no-decompression bottom time printed on the bezel adjacent to his maximum depth indicator, a diver can determine how close he is to reaching his no-decompression time limit.

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***Function:* No-Decompression Bezel** A set of eight interchangeable bezels contain the adjusted no-decompression bottom times for each repetitive group designation.

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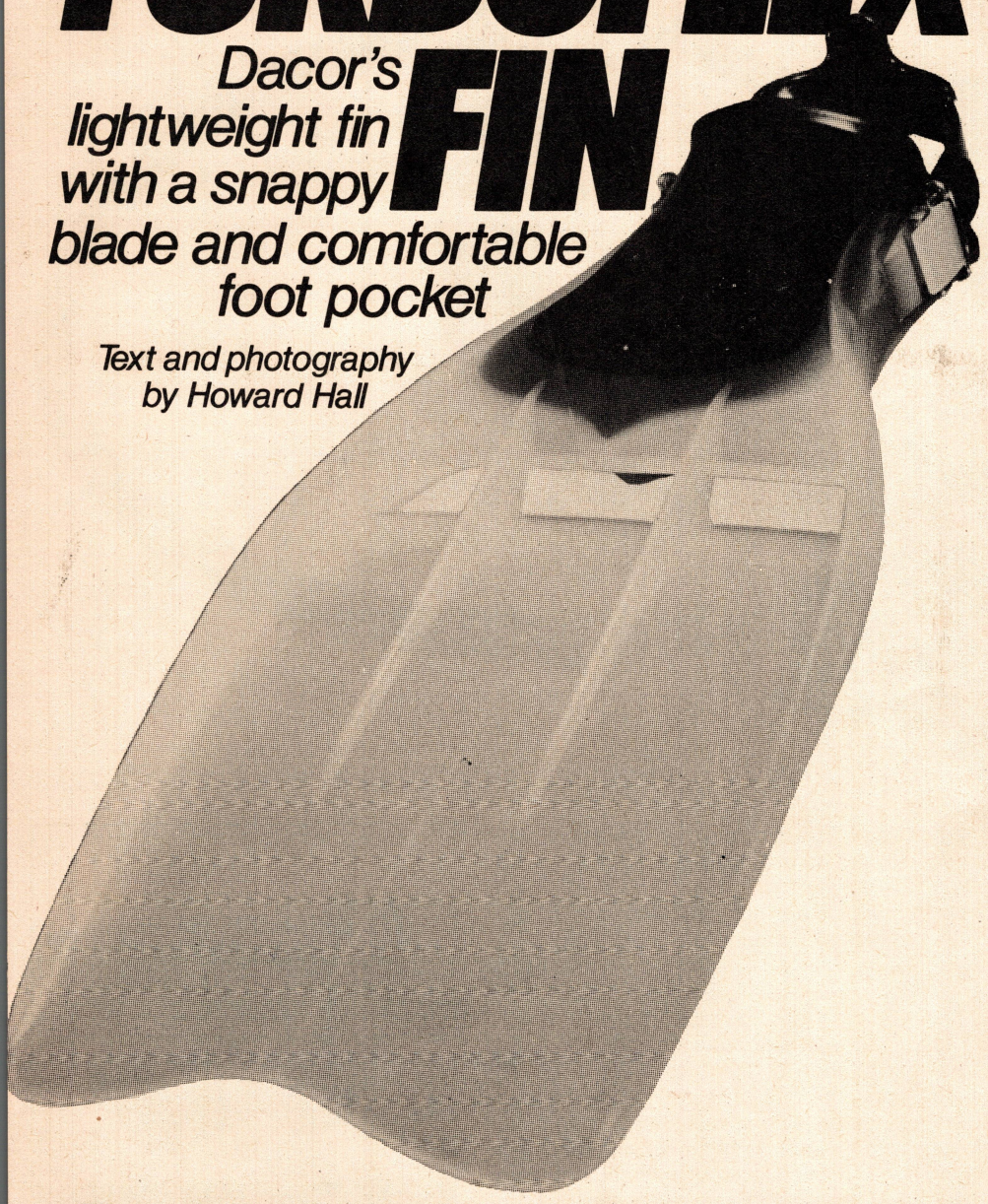
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TURBOFLEX FIN

Dacor's lightweight fin with a snappy blade and comfortable foot pocket

Text and photography by Howard Hall



Dacor's Turboflex fin has a soft neoprene foot pocket bonded to a large blade made of lightweight plastic. The translucent blade will enhance U/W photos.

Dive fins have traditionally been made exclusively of neoprene rubber. Neoprene is soft enough to be comfortable on a diver's foot as well as being flexible and resilient.

Resiliency is very important. Most of the thrust is created when the fin is kicked down through the water. Fin material is flexible and bends against the pressure of the down stroke. With the blade curved under this pressure, force is directed all along the blade at right angles. The amount of thrust produced is determined by how hard the diver kicks and the resiliency of the blade. If the blade doubles over and doesn't press back against the water, it will produce poor thrust. If, however, the fin blade is very resilient and presses back against the water over the full curvature, it will produce better thrust.

Until recently, the resiliency of dive fins was only determined by the length, thickness and shape of the neoprene blade. But now, with the introduction of a new technique for bonding plastic to neoprene rubber, there is an additional factor in determining the potential thrust produced by a fin: the material.

Dacor's new Turboflex is made of two materials. The foot pocket is traditional soft neoprene. The blade, however, is clear, lightweight plastic. This material is more resilient than neoprene. The blade is thermally bonded to the foot pocket.

The sensation you get when you first use the Turboflex is unusual and exciting. The fin is so lightweight that you feel as if you have much smaller ones on. You seem to increase the frequency of your kicking stroke and yet feel the thrust produced by larger fins. The result seems to be more power with less effort.

The Turboflex is similar in size and shape to Dacor's TX1000 fin. These similarities provide a unique opportunity to compare a neoprene blade against a plastic blade. I found the Turboflex to be the superior fin.

In addition to the unique materials used, the Turboflex also incorporates several other design features worth mentioning. The blade is longer than average and has three vents just below the foot pocket. These allow water to slip through the center of the blade during the recovery stroke to minimize effort. The blade also has two ribs down the center and heavy ribs on the sides which strengthen it and help channel water over the end.

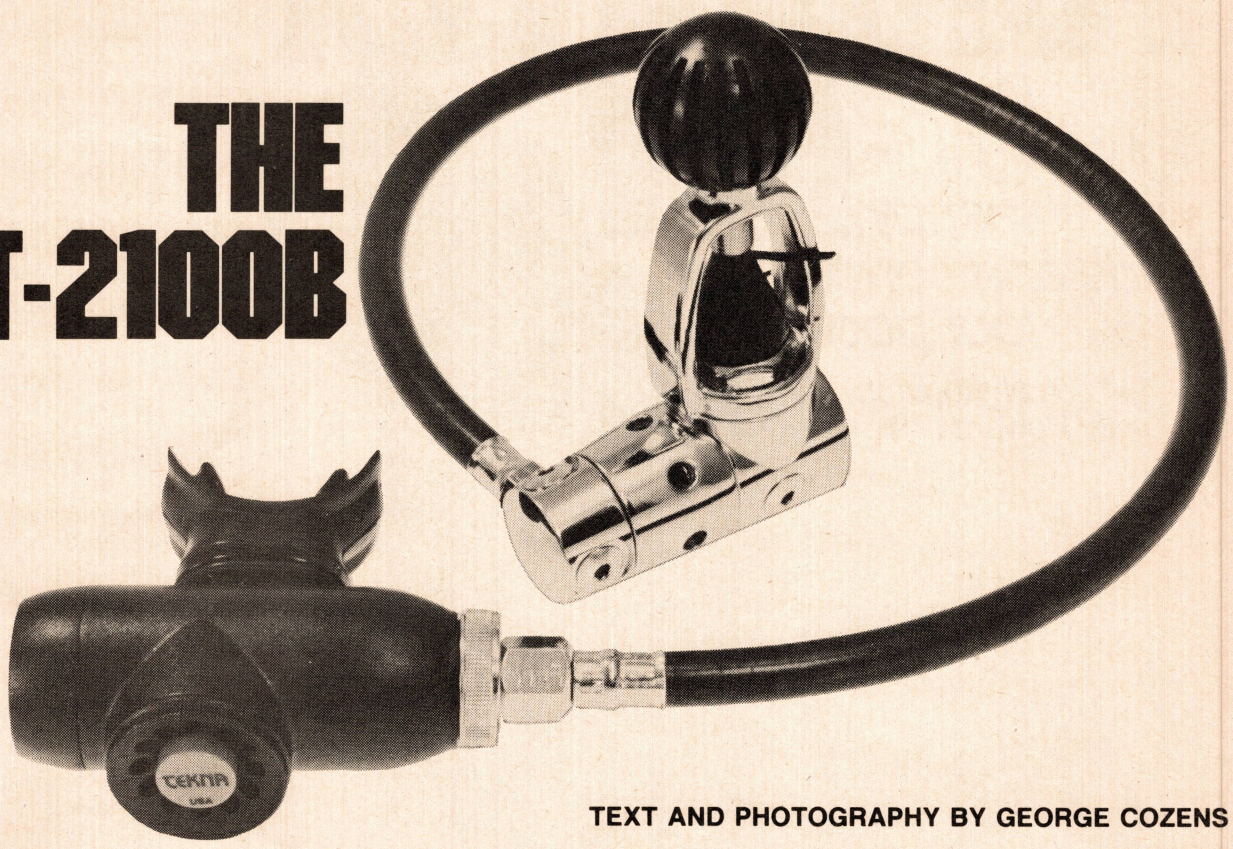
The foot pocket is soft and has optional drain holes for allowing water to run out. I especially liked the buckle arrangement. When the strap is unlocked, the entire buckle comes off easily. This allows strap adjustment with little effort. The strap itself has a large tab, which allows the diver to don and remove the fins easily.

Dacor calls the Turboflex a competition-type fin. This means that it will deliver maximum power to strong divers. It should be pointed out that this is a very large fin. Many women and smaller men may find it too large. It must be remembered that a fin will produce good thrust only when an efficient curve is produced in the blade with the downstroke. If you are unable to continually produce this curvature in a comfortable kick, and the fin wants to rock back and forth sideways instead of producing up and down strokes, choose a smaller fin. If, on the other hand, you are an average sized diver with a good stroke, you may find the Dacor Turboflex a great improvement over the fins you are now using.

One of the unexpected benefits of the Turboflex's plastic composition is its attractiveness in U/W photographs. The translucent blades produce a nice effect.

The Turboflex is available in two sizes: medium and large. The suggested retail price is $50. Visit your Dacor dealer and see it for yourself.

THE T-2100B



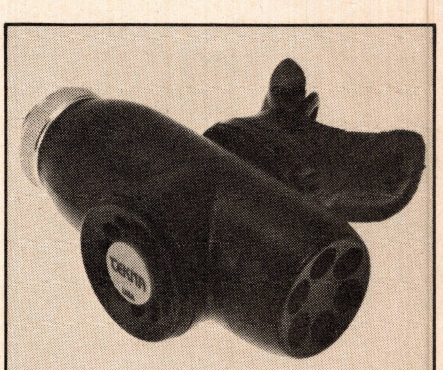
TEXT AND PHOTOGRAPHY BY GEORGE COZENS

A few years ago Tekna entered the regulator market with its own version of a high performance regulator, the Tekna T-2100. This unit was greeted with interest by some divers, and disdain by others—opposite reactions, probably stemming from the same reasons. Although the first stage was quite conventional, the second stage was a radical departure from the norm: It was very small, lightweight and looked too fragile to withstand the rigors of diving. The valve mechanism and the case shape were unusual, as were the T-2100's breathing characteristics. And, there was some concern over its extreme sensitivity to slight changes in pressure. Especially in shallow water, it seemed to respond to surface wave action by momentarily freeflowing. Adding to the controversy, the manufacturer suggested using the purge to clear the second stage after flooding, and claimed that the unit did not need routine adjustment or maintenance (other than rinsing after use). To some conservative divers, these latter comments came close to heresy.

Despite the mixed response, many divers who tried the T-2100 were pleasantly surprised. The light weight and compact size were big assets, resulting in less jaw fatigue and reduced drag in the water. The diminutive second stage could deliver an astonishing amount of air with relatively little effort, however, it was probably a bit too sensitive for most sport divers. To reduce the freeflowing problems, Tekna de-sensitized the unit slightly by increasing the cracking pressure from 0.9 inch (of water) to 1.2 inches.

Additional improvements led to the introduction of the Tekna T-2100B. The most obvious of these was the second stage housing: It was changed from metal to molded, high-impact structural resin. This resulted in about a 28 percent reduction in weight; the T-2100B second stage weighs a meager 6.5 ounces. A second improvement was not so apparent, at least from the outside: The main (supply) valve in the second stage was modified to increase the regulator's performance, especially under conditions of high demand (high air flow at depth). When both the T-2100 and the T-2100B were tested by the U.S. Navy Experimental Diving Unit in 1979, along with 34 other regulators, the Tekna T-2100B qualified for inclusion in the high performance category.

If the Tekna regulators ever were controversial, they certainly shouldn't be now—different, perhaps, but not controversial. As mentioned, the first stage is a very conventional, high performance, balanced piston design, supplying air at a nominal 135 psi intermediate pressure. It is constructed of triple chrome plated brass, provides two high pressure and four low pressure ports (on a rotating swivel) and is available with a 3500 psi yoke (for U.S. tank valves), or a 4500 psi DIN fitting (for use in Europe). This year



The T-2100B second stage has an outer case of structural resin. Its light weight and small size reduce jaw fatigue. It has a servo-control valve (right) to reduce inhalation effort.

Tekna is offering what is called an "environmental first stage:" basically the same unit, but with added protection from salt, sand, silt and other such nasties.

The T-2100B stage is not only different, it is quite interesting. The unit's compact size and light weight belie its capabilities. The secret lies in the design. It is a servo-controlled (pilot) design, which means that air pressure is harnessed to do most of the work in supplying air to the diver so large diaphragms and big valves are not required. Here's basically how it works: The heart of the second stage is a small control chamber, shaped like a cylinder. One end has a port in the center for admitting the supply air. In this same end, there are a series of smaller holes, arranged in concentric rings around the supply port. A flexible diaphragm covers the entire inside of this end chamber, and is clamped tightly around its edge, so that only the center area is allowed to move. This diaphragm contains a restricted opening which allows a limited flow of air to enter the interior of the chamber whenever the pressure there is less than the supply pressure. The opposite end of the chamber contains a tilt valve. Functioning as a servo-control valve, this opens when the diver inhales or the purge is depressed, and air is dumped from the chamber. As chamber pressure drops, the main (valve) diaphragm flexes inward, allowing air to pass from the supply port to the small holes surrounding it, where the air is channeled to the mouthpiece. When inhalation is discontinued, or the purge is released, the tilt valve closes, and pressure builds up within the chamber again. When the pressure reaches equilibrium (that is, equal to the supply pressure) it exerts enough force to push the diaphragm against the end of the chamber, shutting off the air flow.

An additional benefit of this design is the longevity of the second stage: The tilt valve is so small that there is very little force acting on it; and the diaphagm valve, which does practically all of the work, is protected from over stretching by a back-up plate. It is understandable, then, why Tekna makes the claim that, "There are no parts within the second stage which will deteriorate significantly with time or use, provided the regulator is rinsed in fresh water after each dive . . . therefore, no preventive maintenance is required, and service should only be performed if a problem arises . . . ." Since the first stage is more conventional, however, it should receive annual, preventive maintenance from a professional.

Because the T-2100B is somewhat different in use than many conventional regulators, it may take a few dives to adjust to it. For this reason, Tekna has wisely included several recommendations on a card that accompanies each new unit. For example:

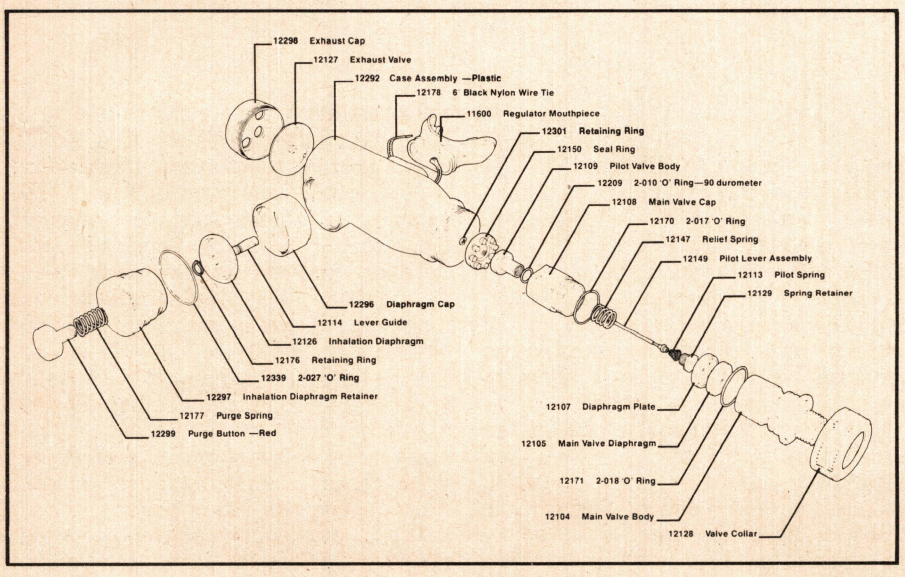
The mouthpiece is very comfortable because the bite tabs are actually hollow tubes, which partly collapse and conform to the diver's teeth. But, if the diver bites down too hard, the teeth will restrict the flow of air, causing a feedback to the servo-control valve, and, as a result, the unit will start to stutter. The solution is simple: Relax, and don't bite down so hard.

New owners should also be aware that owing to the high sensitivity of the T-2100B and its response to wave action overhead, shuddering may be experienced when diving in very shallow water.

Clearing a flooded second stage can be a tonsil-tickling experience for the uninitiated diver. It seems that clearing the unit with a forceful exhalation does not usually remove all of the water—with that inhalation you might get a little water. That's why Tekna still suggests using the purge to clear a flooded second stage, but with the following precautions: Use the tongue to restrict the flow of air (and any water) into the throat and lungs, and depress the purge only long enough to clear the regulator.

During my own evaluation of the Tekna T-2100B, I found it to perform about as I had expected, with no surprises—well, maybe one or two. Being the hypocrite that I am, I started using the regulator without reading the manufacturer's instructions. After I had cleared the flooded second stage with a hearty exhalation, my next breath was accompanied by a shot of water. Not much, but startling nonetheless. After a few more episodes like this (I'm a slow learner) it occurred to me that this was probably just an idiosyncrasy of the unit, and I adjusted to it. The T-2100B certainly will deliver a lot of air upon demand: I could sense a slight initial resistance (cracking pressure) upon inhalation, but after that the air came very easily. (Warning: if the unit is in your mouth , and you must depress the purge, do so with a light touch—otherwise you might get more that you bargained for.) The inhalation effort didn't seem to change much when I tried different positions: A little harder, perhaps, while on my back, looking up, somewhat easier when looking down. Considering the small size of the exhaust valve, exhalation effort was unexpectedly easy—and it didn't seem to vary much in different positions, either. Freeflowing wasn't a problem: Even with the unit held away from the mouth and the mouthpiece facing up, freeflowing would not start by itself; and when initiated by depressing the purge, it would self-extinguish within a second or two. By inhaling various ways, I managed to make it stutter: perhaps this was due to my strange breathing pattern, or to the air reflecting off of my teeth or tongue, causing a feedback situation. Whatever, it wasn't really a problem, and I had to work to keep it stuttering.

At $239.95, the Tekna T-2100B is worth considering, if you're in the market for a regulator. Its light weight, compact, size, and high performance should more than offset its minor idiosyncrasies. For more information, write Tekna, 3549 Haven Ave., Unit E, Menlo Park, CA 94025.





Pro-line 23' Walkaround

Spacious Craft With a Cuddy Cabin For Overnight Dive Trips

Text and photography by Steve Lucas

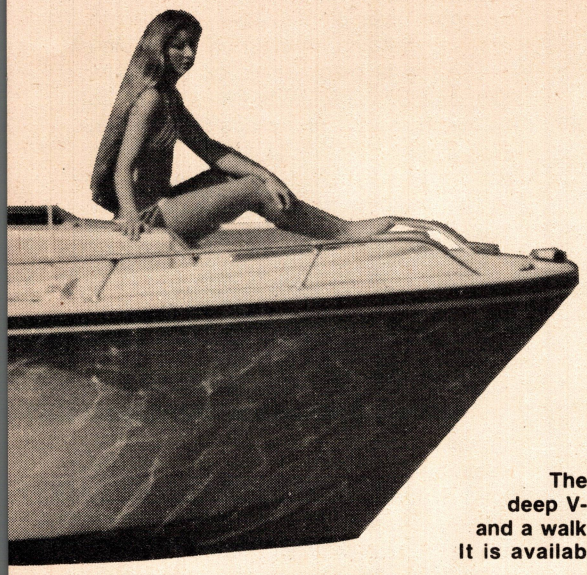
Dan Atwood of Crystal River, Florida, knows how to make a subtle sales pitch when it comes to his pride and joy: Pro-line boats. Dan sat across the table quietly answering my prodding questions about how his boat is made and what special features he had incorporated into its design. He repeatedly insisted that he builds a simple, all-around boat. A "Ford and Chevy" kind of boat, he stated several times, all the while knowing that I would have one at my disposal for some test runs around the beautiful Crystal River springs.

The following morning, when the boat pulled into the dock at the Plantation Inn I was really caught off guard. This Ford came off looking more like a Cad than I had been lead to expect. Dan's idea of a dive boat has a good deal of luxury built into it. The Pro-line 23 foot Walkaround not only gets divers to the site in comfort but dry, totally dry. Many boats are known for their ability to throw spray away from the boat while running in rough conditions. However, there are still those conditions that will throw water onto the passengers no matter how well the boat is designed or how skillful the operator. Pro-line's answer to the problem is actually quite simple: a cabin large enough for three or four people. Not only do the people stay dry, but so do certain other pieces of equipment (such as cameras). This boat offers as much safe, padded, dry storage for photo gear as could be desired. The cabin also has two V-berths large enough to sleep a couple of persons on an overnight excursion. To make life even more comfortable an optional marine head is available.

Boats with cabins are sometimes avoided by divers because they limit deck space and make getting forward to raise and lower the anchor difficult. Both problems have been readily solved by the design engineers at Pro-line. The cabin does not take up the entire forward section; there is a walkway around the entire front of the boat so the bow is easy to reach. The mate who draws anchor duty will appreciate the recessed design of the bow section. And, since the cabin is surrounded by a walkway its roof can double as forward seating with both comfort (there's a built-in cushion) and safety.

The cockpit is both roomy and functional, having an eight foot beam. Twin swivel helm chairs are a standard feature as is the cuddy top (similar to a Bimini top) and front windscreen. These offer excellent protection from both sun and spray. There is ample space for dive gear in the roomy aft cockpit. Tank racks are optional and divers will want to add these along the gunwales. Teak dive platforms for either side are an inexpensive option, costing about $140. We found the ladder and the handrail attached to it quite useful in exiting the water. The deep splashwell and low transom on the outboard model make it easy to step from the platform into the cockpit. Overall, we found the area roomy enough for five or six divers.

The 23 foot length, combined with the deep V, all fiberglass construction make an exceptionally stable, smooth riding, durable boat. Power can range anywhere from 135 hp outboards up to a single 235 or a twin set of 100's. If you want to sacrifice some of your room you can add the optional inboard gas engine with stern drive. Suggested horsepower for the inboard is in the 140 to 185 hp range, but if speed is your thing you can put in a large engine. A 70 gallon fuel tank is standard and with a medium sized engine



The Pro-line 23' Walkaround has a deep V-hull, a cabin which sleeps two, and a walkway which encircles the cabin. It is available in outboard or sterndrive.



The deep splashwell and low transom on the outboard make it easy for divers to step from the platform into the cockpit. The staging area behind the cockpit is roomy enough for five divers.

PRO-LINE 23' DEEP V WALKAROUND

Max. Horsepower Outboard
Twin 100, Single 235

Sterndrive Available
140, 165, 170, 185 hp

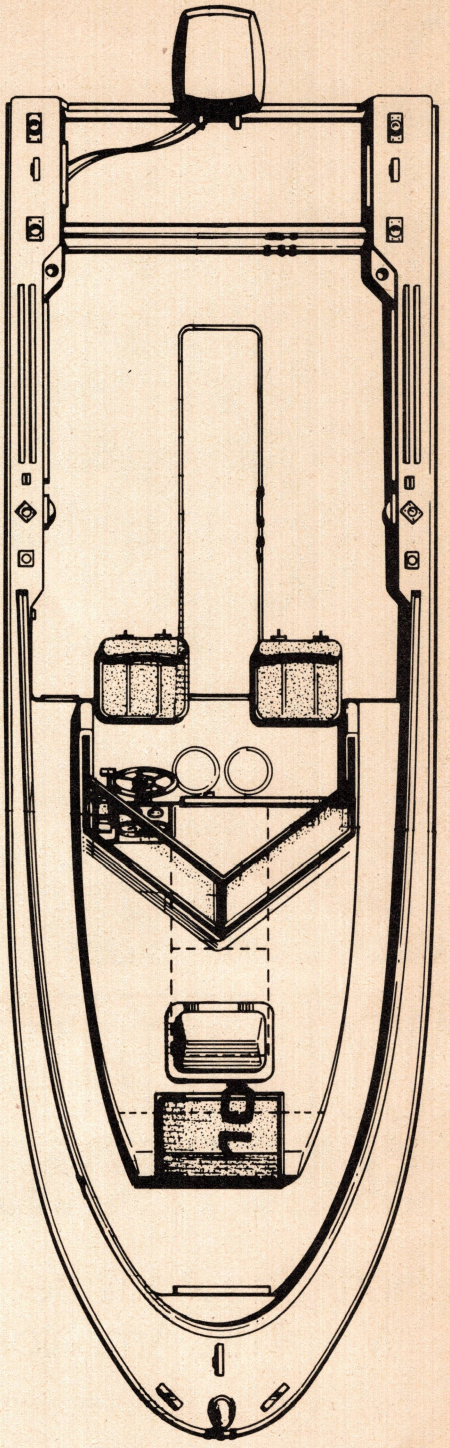
Fuel Capacity
70 gallons

Hull
Deep V

Length
23'0"

Beam
8'0"

Weight
2300 lbs.



this will allow good cruising range.

In addition to the standard features already listed, an automatic bilge pump is factory installed. The optional list of equipment is very impressive and you can outfit your Pro-line with just the touches you desire. For example, if you really want to keep the cockpit area dry you can add side curtains to the standard cuddy top and front windscreen. If you want to be protected from inclement weather while overnighting you can go all the way and add the optional aft curtain as well! If you want more seating in the cockpit the swivel chairs can be replaced with back-to-back seats accommodating four instead of two. If that's still not enough seats a cooler that doubles as seating can be added in either of two sizes! Further options to really bring this Ford up to the luxury level include windshield wipers, electric fuel gauge, a pair of speargun (rod) holders, external baitwell, cabin lights, dual steering, etc.

The most amazing thing about this large, roomy, comfortable boat is its price: $8,889 less motor and trailer. In the stern drive configuration the price starts at $15,441. That much boat for that little money makes the 23 foot Walkaround a formidable competitor.

There are Pro-line dealers in most major cities throughout the Eastern half of the U.S. If there is not one listed in your local yellow pages you can write for literature and more information. Inquiries should be directed to: Dan Atwood, Proline, P.O. Box 1348, Crystal River, FL 32629; (904) 795-4111.



photo/Bonnie J.Cardone

WHITE'S ELECTRONICS PI1000

Hear, See And Feel Your Treasure Finds With This Amphibious Metal Detector

BY BONNIE J. CARDONE

Once you've gotten past the wide-eyed wonderment of scuba diving, you'll be looking for something interesting to do underwater. Some divers immerse themselves in photography; some become avid game hunters. If, however, you're a natural-born scrounger, the little orange machine shown on these pages was made for you. New, from White's Electronics, it's the PI 1000, an amphibious metal detector.

White's is the largest metal detector company in the U.S. and has been making treasure-finding machines for more than 30 years. The company is owned by Kenneth and Olive White and their son, Kenneth, Jr. White's makes about nine different metal detector models ranging in price from $79.95 to $499.95. The PI 1000 is the newest addition to the line and the only amphibious unit the company sells at present. (The older Treasuremaster Amphibian and the Surfmaster have been discontinued.) White's is headquartered in Oregon and has an overseas manufacturing plant in Inverness, Scotland.

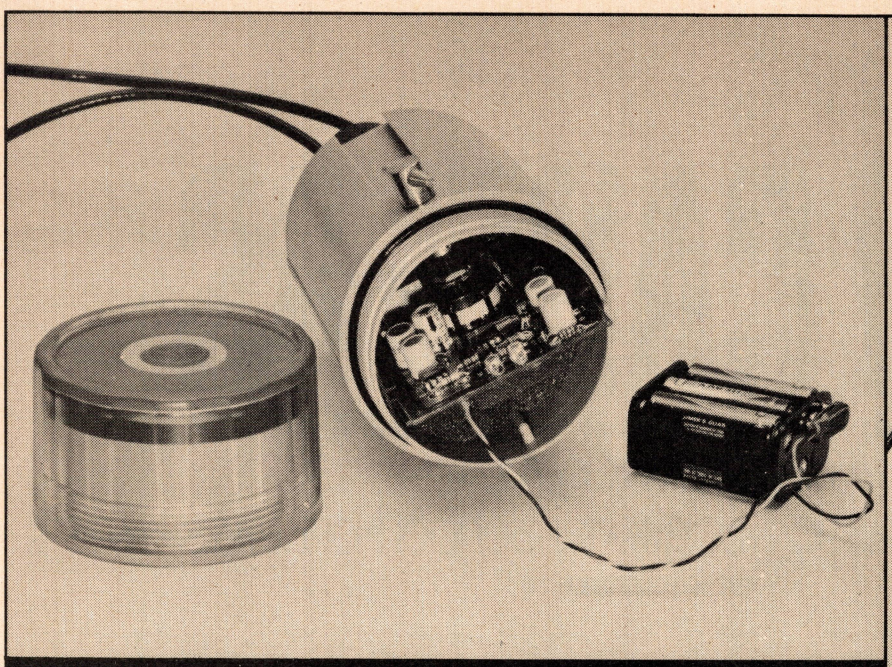
The PI 1000 arrived in our offices unassembled. Although not noted for my mechanical ability, I was able to put the unit together easily, unassisted. There are just three basic pieces: a two-section rod, a searchcoil and an electronics housing.

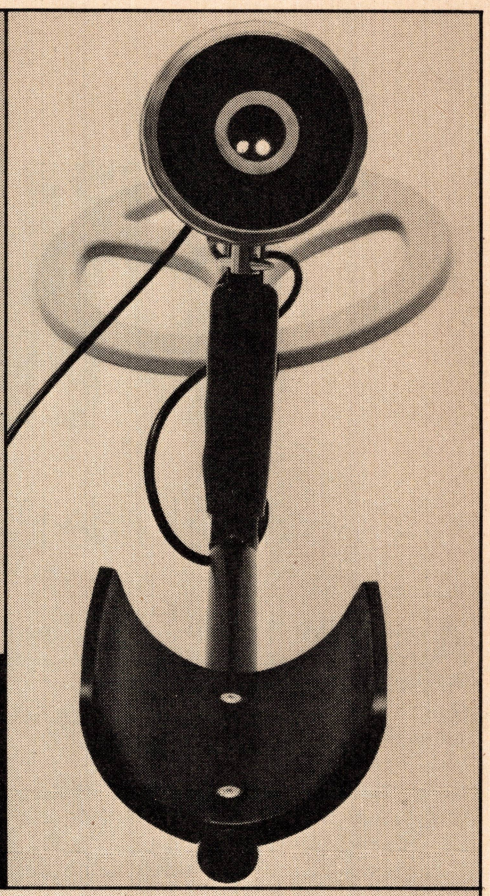
The rod is black anodized aluminum. One section slips inside the other. A set of five holes on one piece matches up with a pair of stainless steel buttons on the other to provide five settings for length. At its minimum extension, the rod is 33½ inches long; at its maximum, 43½.

The lower section of the rod attaches, with a plastic screw and nut, to an 11 inch diameter, orange searchcoil. The searchcoil contains a single loop induction coil embedded in plastic. The upper section of the rod has an arm brace and a handgrip that holds the housing for the electronics. An orange, ABS plastic, 0-ring sealed case, the housing is seven inches long and three and one-half inches in diameter. There is a groove on the underside so it can slide on and off the handgrip. Inside the housing are a printed circuit board and a battery pack with six AA alkaline cells. The lid of the housing is clear Lexan. From the side you can see if the O-ring is sealing properly. Two LED lights are visible through the top. One of these—the battery indicator—is green. The other—the find indicator—is red. The electronics housing has two cords, one leading to the searchcoil and the other to a mechanical vibrator. This is simply a one and one-half by two inch hard rubber rectangle which transmits clicks which can be heard and felt. It comes with a stainless steel clip and can be attached to your hood, facemask strap, or slipped inside your glove.

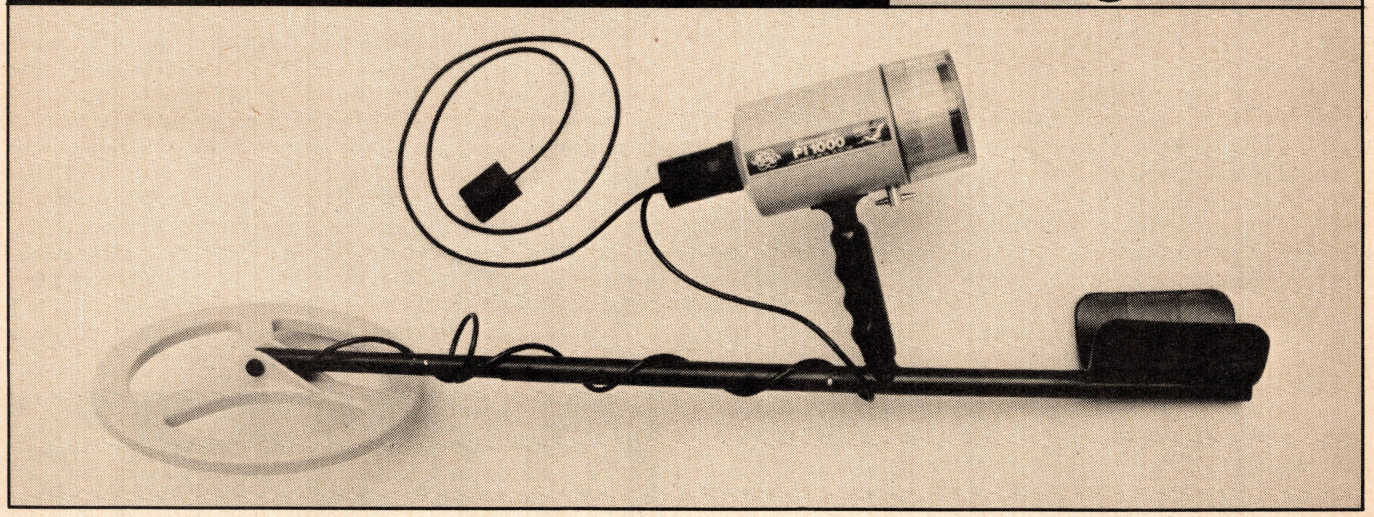
The PI 1000 is easy to operate. After assembly, slowly rotate the T-shaped stainless steel switch on the underside of the electronics housing 90 degrees. After a 30 degree rotation the green LED will flash if the battery is good. (Under normal conditions with standard alkalines, the unit will work about two hours after the battery check LED no longer lights. With fresh alkalines the detector will operate for about four to six hours.) At 60 degrees rotation, the detector is ground balanced (has cancelled out the effects of the mineral content of the ground). At 90 degrees, it is tuned to the area around it. At this point, the detector is ready to use. The operator moves the searchcoil from side-to-side, over and about two inches above, the ocean floor.

The PI 1000 is a pulse induction metal detector that is completely unresponsive to salt water and to all but the most heavily mineralized ground. This type of detector has proven very accurate in salt water. The PI 1000 indicates a find in two ways: Clicks from the vibrator become more rapid and the red LED flashes more frequently. The PI 1000 detects all metals with the exception of very thin foil. It has proven accurate down to ten inches with small objects, such as coins, and down





Opposite page: Darryl Melton, Calif. Y-Desert Divers divemaster, tests the PI 1000. This amphibious unit includes an 11 inch diameter, plastic searchcoil; a two-section rod which has length adjustments; a mechanical vibrator; and an 0-ring sealed housing for the electronics. The system operates on six AA alkaline cells. Two LED lights in the top of the housing indicate battery condition and register finds. A stainless steel switch tunes the system for soil conditions, etc.



to six to ten feet with large objects, such as cannons. Detection is affected by three factors: The object's size, the length of time it has been buried and the skill of the operator. The longer an object has been buried, the easier it will be to find. This is because there is a chemical reaction in the surrounding soil, called a halo effect, that causes the detector to register a much greater increase in frequency than might otherwise be expected. Should the detector become untuned—that is, start clicking and flashing rapidly when you know you are not near metal—retune it by turning the switch to 60 degrees and then back to 90.

Care of the PI 1000 is simple. Rinse in fresh water after saltwater use and let dry. Periodically clean the 0-ring and lubricate it with silicone grease. Clean the 0-ring groove with a cotton tipped swab. If the detector is not going to be used for awhile, remove the battery pack and put the Lexan lid on loosely. Do not leave the machine in the sun or where it might get excessively hot.

The PI 1000 can be used on land or underwater to a depth of 200 feet. It weighs four pounds, six ounces topside. It is positively buoyant underwater, but comes with several clip-on weights that can be used to make it neutrally or negatively buoyant according to your needs on a particular day.

Specifically designed with scuba divers in mind, the PI 1000 sells for $399.95. For more information or a catalog contact: White's Electronics, Inc., 1011 Pleasant Valley Road, Sweet Home, Oregon 97386. While your friends are spending their time in hot pursuit of award-winning photos or big fish, you could be scrounging to your heart's content; finding cans, carbines, cannons—or coins!

U/W CAREERS

INTERNATIONAL

A Florida Based Vocational School For Divers

BY RICK FREHSEE

A new name in sport diver training and recreational diving career development is Underwater Careers International, in Hollywood/Ft. Lauderdale, Florida. While UCI is new, the concept and the people behind the school are well established and instantly recognized in the dive industry.

UCI is a natural extension of industry innovator Dave Inman's conglomerate of enterprises. Inman is the owner of Divers Unlimited, a highly successful South Florida retail operation. It is the only organization ever to be awarded the prestigious title of Number One Training Facility in the USA, by PADI International. As a PADI master instructor and ITC training officer, Inman has pioneered progressive diver development and has presented his successful business theories in several publications and at national seminars and conventions. The format of the modern ITC must be credited in part to his expertise. Inman has earned his credentials in the field of dive travel as a market specialist and operations consultant in Mexico, the Caribbean and South Florida.

While Inman serves as curriculum coordinator for UCI retail operations and management programs, the key position of program director belongs to Alex Brylske. Brylske's previous position was projects manager for the PADI Training Facility program. He authored the PADI training module, The Business of Diving. He is also a contributing editor to PADI's manual, *The Retail Dive Store: Management and Operations.* Brylske has a well-rounded background as an instructor, resort divemaster, and PADI executive working in such diverse locations as the Mid-Atlantic, Pacific Northwest and Southern California.

If instant success can be predicted for any new business enterprise, this one has all the necessary ingredients. Inman's parent company and its complementary business activities include Fantasia Divers in Cozumel, a well-equipped charter boat in the Florida Keys, and a history of ITC development.

Although it is a natural extension of Divers Unlimited, it was through a progressive series of ITC's and educational services developed over many years that UCI was born. Since 1973 Inman has conducted numerous PADI instructor training courses, certifying hundreds of instructors. In 1980 both a retail seminar series and a resort instructor course were added. According to Inman, "UCI was not just an interesting thing to do. It is our forte. No one is better equipped to provide reasonable, time-conscious training for the serious minded recreational diver." Nor is UCI a two man operation. In addition to Inman's and Brylske's expertise, there is scheduled input from many key people in the Divers Unlimited family of 25 employees, including manager Dave Stancil.

UCI is taking full advantage of South Florida's warm weather, clear water and dive resort environment. According to Brylske, South Florida is, "the gateway to the Caribbean," and Florida, the Bahamas, and the Caribbean are, "the heartbeat of the diving industry. It is no secret," he continues, "that this area is the number one dive area in the world. Here there are 300 plus days of excellent weather, more successful dive operations, and almost unlimited growth potential. Our training and our objectives in job placement are best served here." To take full advantage of the geographical location, all the open water training takes place off the South Florida Coast, in the Keys and Bahamas.

The UCI flagship, *Dolphin One,* is berthed in Key Largo, adjacent to Pennekamp Park. It is a $100,000, 42 foot diesel, custom charter dive boat with the latest in a platform ladder system, storage and staging areas, and safety and navigational equipment. The *Dolphin One* is about 45 minutes to one hour away from Molasses and French reefs, and other coral stalwarts of Pennekamp. Here, UCI students develop their knowledge of open water procedures, group control, and ocean expertise. As a direct result of recent negotiations with several operations, the divemaster program will now feature four days of training in the waters of the Bahamas.

UCI's innovative programs have strong appeal for qualified

Underwater Careers International offers scuba courses including: instructor, resort specialist/divemaster, retail operations specialist, and an ITC preparatory course.



photo/Alex Brylske

scuba divers with various levels of experience as well as serious scuba instructors. While the parent company will continue to provide standard scuba training, UCI will take on the progressive educational steps from there. Students can enroll in the series of courses in consecutive order or one at a time to accomplish their goals according to an individual expense/time plan. The curriculum includes ITC preparatory course (24 hours), instructor training course (90 hours), resort specialist/divemaster course (85 hours), and retail operations specialist course (80 hours) for a total of 279 hours of training given over a period of 5 weeks. Specialized courses such as lifesaving seminars for divemasters, underwater photography specialist, and equipment repair clinics are also offered quarterly. UCI is currently adding to its retail operations program and will be offering retail management seminars to dive store owners and managers.

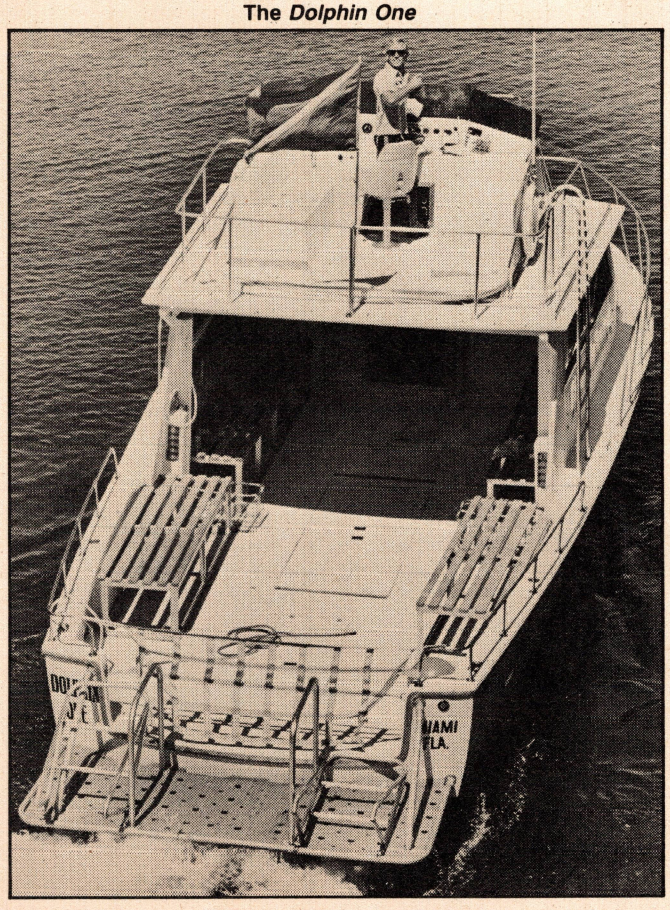


Alex Brylske



Dave Inman

The *Dolphin One*



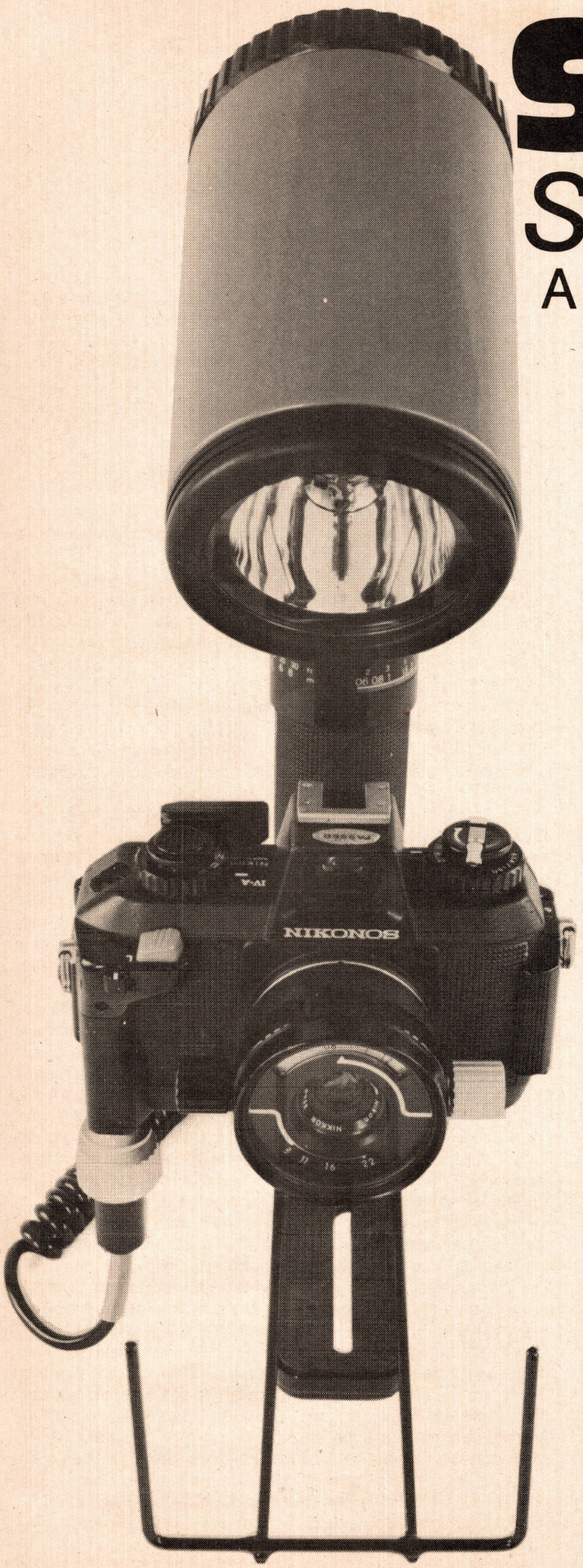
Special consideration has been given to just how much training can be accomplished within a reasonable time frame and to what end. Brylske offers that, "It is imperative that we progress rapidly and don't waste anyone's time and money. Attention here is on education and educational development. It's ironic, but with all the emphasis on the need for quality educators in the field of sport diving, many people still show up at ITC's white-knuckled and expecting to be beaten with a bullwhip. The instructor image has changed. Diving is fun, and an ITC candidate has a right to expect the training to be fun, too. The first two days are spent in evaluation to assess the student's skills and knowledge. From then on it is teaching an individual how best to become an effective educator—that's what we're all about."

While ITC development is important, Brylske is particularly excited about his resort operation course and is convinced that this will be UCI's most popular program by far. The unique requirements of dive resort operations demand a wide range of information, skills, and specialized training that is just not offered in traditional diver education programs. In addition to their own expertise in designing and managing the Fantasia Divers operation in Cozumel, Inman and Brylske consulted with other successful and active resorts throughout the Caribbean and have developed a curriculum that includes equipment maintenance, dive group supervision, boats and marine engines, accident prevention, and chamber systems. Inman asserts, "This is a position in the dive industry which is perhaps most critically underdeveloped. This is an important out-front position, an individual who is in direct contact with hundreds of divers a year from all walks of life. It is imperative that we do an outstanding job; and we are confident that UCI has the program to do it."

Although some UCI students and graduates will be using their training to further develop diving as a personal hobby, many will be seeking part-time or full-time employment. In response to job hunting and placement after graduation, Inman offers the following, "Due to our very active role in the business, we are in daily contact with both retailers and resort owners and managers throughout our area and the opportunities are enormous. By every parameter that is measured in the sport diving industry, this is where the growth is taking place. Ninety percent of the jobs are getting to be selected from this area, which demands precisely the set of skills with which we furnish our students. The vast majority of the jobs will be resort oriented. For a qualified resort specialist, the market is wide open and almost non-competitive." In addition to assistance with available positions in the industry, UCI also provides several individual counseling sessions for each candidate. Useful information and help with housing and ground transportation is also available.

UCI has impressive credentials. It is one of the few schools to be sanctioned by PADI International as an instructor training facility, and is licensed by the State of Florida to provide specialized career development. With a geographical location in the heartland of the sport and 80 percent of the open water training in the Florida Keys, a meaningful program is assured.

For an information packet on UCI's unique programs you can write: Divers Unlimited, Underwater Careers International, 6023 Hollywood Boulevard, Ft. Lauderdale/Hollywood, FL 33024.



SB-101 SPEEDLIGHT

A hot underwater flash for rapid macro

TEXT AND PHOTOGRAPHY BY GERI MURPHY

Have you ever experienced the frustration of missing a great underwater macro shot because your flash didn't recycle fast enough? There you are, with your macro framer all lined up on a nice little banded coral shrimp or clownfish. Immediately after you fire your strobe the startled little creature strikes an even more interesting pose and you go for a second shot. But alas, the strobe seems to take forever to recycle and the creature scampers off before you can get the prize-winning picture.

Take heart, dear friend, for now there is a strobe which can solve your problem. The Nikon Company of Japan has developed an underwater strobe which has proved remarkably good for macro photography — it recycles almost as fast as you can advance the film.

GENERAL DESIGN

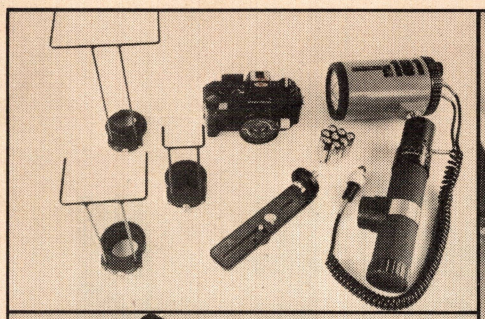
The underwater strobe we are talking about is the Nikonos SB-101 Speedlight. It was introduced a little more than one year ago along with the Nikonos IV-A. Its major feature, heavily promoted by Nikon, is automatic exposure programming which is integrated (dedicated flash) with the electronics of the camera itself. You have probably seen the ads which say: "36 out of 36."

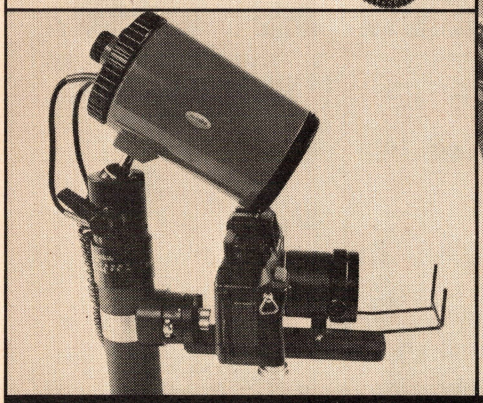
Ironically, all of the fanfare about its automatic exposure overshadowed many of the basic features of this excellent strobe. No one really gave much thought to how the SB-101 would work on manual exposure for macro photography. As it turns out, the SB-101 is ideally suited for this purpose because of a unique combination of design features.

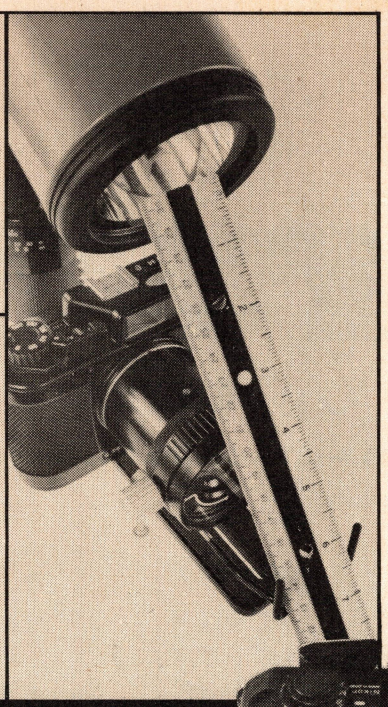
MACRO FEATURES

First of all, the SB-101 provides an extremely powerful flash. The use of extension tubes between the camera lens and body not only extends the focal length of the lens but also reduces the amount of light which reaches the film. Thus, strong output is absolutely essential for macro.

The power of the SB-101 is partly owing to its narrow beam angle (50 degrees underwater) which concentrates coverage into an area slightly larger than that of the Nikonos 35 mm lens. Another reason for the high power output is the quality of this unit's circuitry. The SB-101 is powered by eight 1.5 volt AA alkaline batteries. The starting voltage of these batteries is 12 volts, which is then stepped up to a higher voltage for driving the flash tube. Incidentally, the SB-101 features a circular flash tube that gives very even flash coverage.







The SB-101 is perfect for use with a Nikonos camera outfitted with macro tubes and framers. The camera bracket can be positioned in front so the strobe head is directly above the camera. For 1:1 macro at f22, the flash-to-subject distance is six inches.



The Nikonos camera bracket is normally mounted sideways, with the SB-101 above and to the left of the camera.

The SB-101 is so powerful that you can operate it on the one-fourth power setting. At this setting this strobe recycles in 1.4 seconds. Another advantage of the quarter-power mode is that you get a lot more flashes out of a set of batteries. We estimate approximately 650 flashes with a fresh set of alkaline cells. If you use ni-cad rechargeable batteries the recycle time quickens to 0.8 second.

Can you really get enough power with the quarter-power setting? SKIN DIVER ran several tests to find the answer. Using Ektachrome 64 film, we set the Nikonos IV-A on manual (shutter speed 1/90 second). At an aperture setting of f22 we obtained perfect exposures at the following distances: 1:3 macro tube — 10 inches; 1:2 macro tube — 8 inches; 1:1 macro tube — 6 inches.

There was no question in our minds that the SB-101 could put out as much power on the quarter-power setting as most mini strobes do at full power.

But wait, there is more! The camera bracket assembly for the SB-101 turns out to be a perfect set-up for macro. The strobe head is attached to a large, two inch diameter upright handle which contains the battery pack. The batteries are in the lower part of the handle, thus giving the strobe excellent balance underwater. The strobe head is connected to the handle by a swiveling ball-joint which allows the strobe to be adjusted in a variety of positions and angled downward more than 45 degrees. This is really handy when working with macro tubes since the wire frames are only a few inches from the lens.

The neat thing about the SB-101 assembly is that the strobe handle can be easily positioned anywhere along the mounting bracket. Loosening the two locking screws on the bracket mount allows you to swing the camera bracket forward, to the side, or slide it up and down. This adjustment capability allows you to position the camera on either side of the strobe head or directly in front. Most flash arm assemblies position the strobe head to the left of the camera. However, we found it more desirable to position the SB-101 strobe head directly in back and above the camera. This position provided the ideal angle for front lighting.

Once adjusted and locked into position, the SB-101 flash remains firmly set and cannot accidentally shift position. It has one of the most compact and sturdy flash arm/bracket designs offered today. You can carry or operate the complete camera and strobe assembly with one hand if necessary. This is particularly helpful when diving in a current or attempting to work in heavy surge.

CONCLUSION

While the SB-101 may be good for many other types of photographs, it certainly excels in macro. The strobe has exceptional power, high quality coverage, compact mounting and an extremely quick recycle time. As the manual says, it's the Nikonos Speedlight.

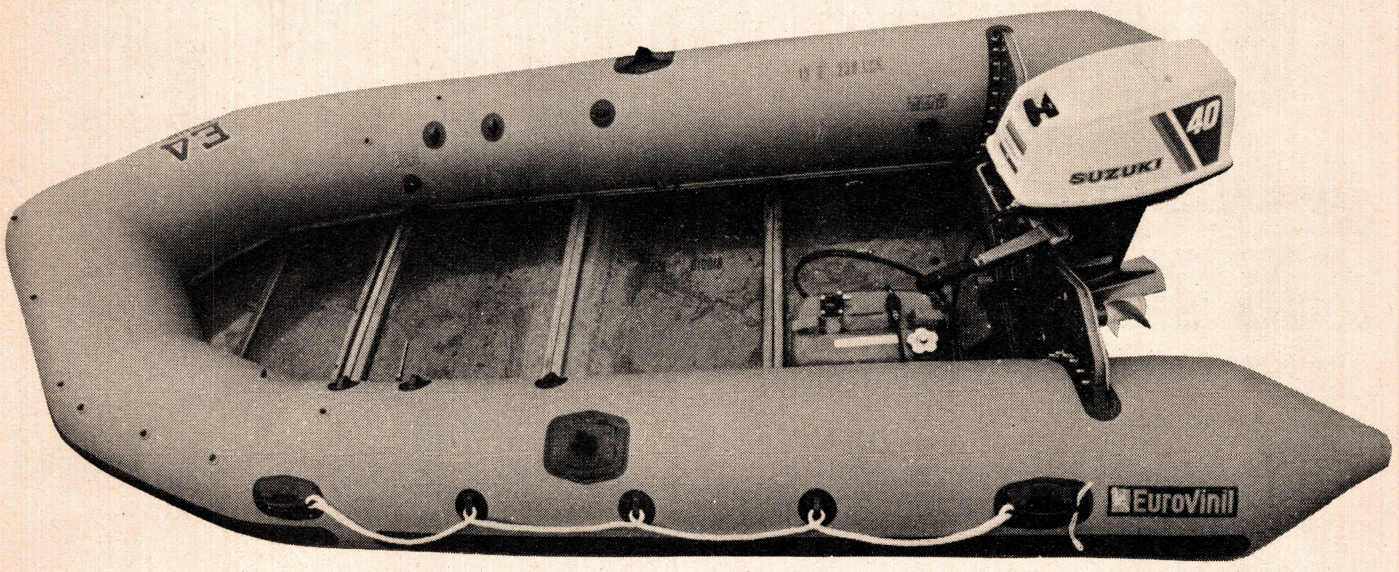
The SB-101 is not an amateur play-toy; it is a professional quality flash for underwater use. The unit retails for $454, which includes the camera bracket assembly and detachable automatic exposure sensor. The flash is available at dive and camera stores throughout the country.

For more information write to: Richard LoPinto, Nikon Inc., 623 Stewart Ave., Garden City, NY 11530.

The Eurovinil E 4

A Colorful Inflatable You Can Customize To Fit Your Needs

TEXT AND PHOTOGRAPHY BY ERIC HANAUER



Eurovinil (pronounced urovineel) isn't exactly a household word in the United States. But, the name is well known in Europe where the Italian product is one of the Continent's best sellers. In business since 1951, the company makes a full range of lifeboats, buoys, water distillation equipment and even inflatable tents for the Italian military and for NATO. Since 1969, it has been a pioneer in the use of plastics for inflatable sport boats. And, late last year, the company decided the time had come to invade our shores. Max Lagomarsino's Villini International, Inc., of Leucadia, California became the North American distributor. The first boats arrived in time for the February, 1982 boat shows.

Eurovinil makes three boats of different sizes, with subtle differences in hull and pontoon design. The largest boat is the E 4, 13 feet, 8 inches, designed for carrying heavy loads. This model is best suited for the needs of divers.

The E 4, as are all Eurovinils, is a plastic boat. But don't confuse it with the water toys which are sold in discount stores. This is a genuine, rugged, workhorse dive boat. Eurovinil uses space-age technology in a new assembly method which the company feels is the wave of the future in the inflatable boat industry.

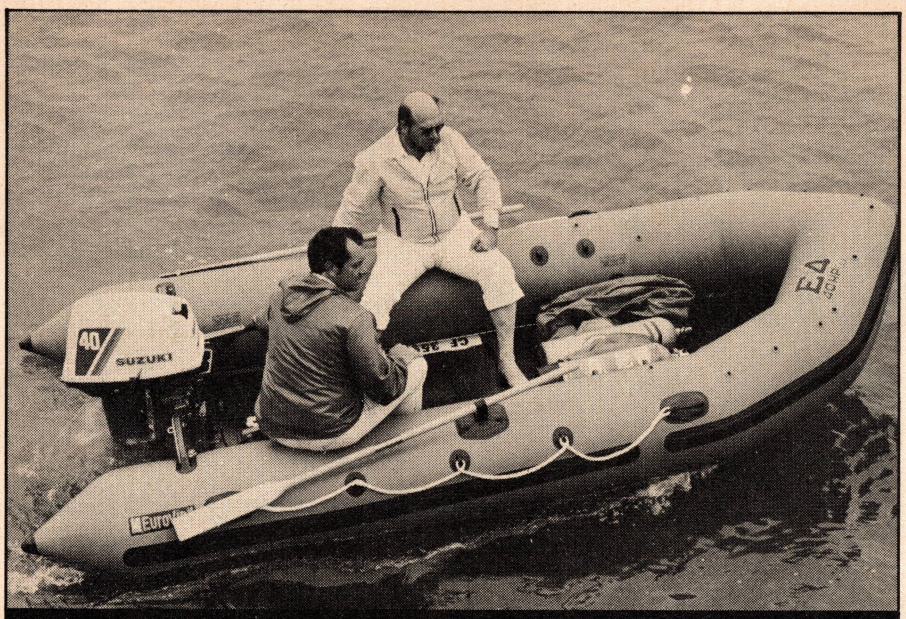
As is the case with any quality inflatable, a base fabric gives the boat strength and resistance to distortion. Eurovinil uses a polyester which they call Doubletex EV. It is coated on both sides with PVC. The manufacturer feels this material has several advantages over rubber products. It is more resistant to sun and ozone than even hypalon. Only extreme heat and highly volatile solvents, such as acetone, can harm PVC. These substances are not normally found around inflatable boats. The E 4's advertising literature even states that the boats do not need washing before storage, but I wouldn't go that far.

Perhaps the greatest advantage of plastic materials is in the manufacturing process. Rubber materials must be glued by hand. This is extremely labor intensive, and the bond is only as good as the person doing the work. Since each boat is, in effect, handmade, absolute uniformity throughout the production run is impossible to achieve. The seams of Eurovinil boats are electronically welded, forming a molecular bond, so that two pieces literally become one. During tear resistance testing, it was found that the seams are stronger than the material.

Lagomarsino performed his own test of the electronic bond by pulling a fitting off the hull. It required 680 pounds of pull to do it. To demonstrate his confidence in the process, all Eurovinil boats sold in the USA are guaranteed for ten years against failure of materials, seams, and valves.

No inflatable boat is completely immune to punctures. If one occurs, the E 4 owner has two options. The boat can be sent to the distributor, where a patch can be electronically welded to cover the hole. In many cases, the patch can be installed inside, making it practically invisible. This is the recommended procedure for major rips.

A small leak in an E 4 can be repaired in the field by the owner, even easier than on a rubber boat. A two-part molecular



The E 4 inflatable can handle a 40 hp outboard but less power would be needed for light loads. The boat is constructed of a polyester fabric coated on both sides with tough PVC. The E 4 will carry up to five divers.

EUROVINIL E 4

Length ..... 13'8"	Tube diameter ..... 18½"
Width ..... 6'2"	Weight ..... 213 lbs.
Interior length ..... 9'3"	Passenger capacity 8
Interior width ..... 3'1"	Diver capacity ..... 4 to 5
Material ..... Doubletex EV polyester, coated with polyvinyl chloride	Load capacity ..... N/A
	Operating pressure ..... 3 psi
Keel ..... Wood	Recommended horsepower 40
Number of chambers 3	Price $3,500

solvent, called Airstop SAE, is applied directly over the leak. When it cures, in 12 to 24 hours, it seals the hole and actually becomes part of the material. Unlike glue, it actually becomes stronger with age.

Larger tears require patches of the PVC fabric material, which are glued over the hole with Airstop. No scuffing or preparation of the surface is necessary prior to gluing, as is the case with rubber.

Beginning with the basic E 4, the owner can custom tailor the boat to his/her needs with the addition of a series of options. More choices are offered than perhaps with any other inflatable boat. One can begin with a removable bowdodger. A windscreen can be added to provide further spray protection. Up to this point the option list looks like that of any other manufacturer. But wait, it's just beginning. A mahogany wall with a locking door can completely enclose the area underneath the bowdodger.

Remote steering can be added, along with an inflatable seat, which folds down into a mat. To complete the transformation, there is a fiberglass dashboard, which includes an aluminum reinforced windshield. The dashboard console features motor speed and transmission controls, running lights, compass and rearview mirror. Electrical power is supplied by a small motorcycle battery. This setup, very popular in Europe, makes the E 4 a multi-purpose boat for high speed cruising and water skiing.

Let's take a close look at the E 4 in its dive boat configuration. Quality construction is evident throughout. Its burnt orange color is designed for visibility. The hull is divided into three chambers. The plastic inflation valves have a low profile, almost flush with the hull, to minimize snagging. The inner valve body can be uscrewed for rapid deflation. A unique pressure gauge is built into one of the valves, color-coded to indicate the proper inflation pressure of three psi. A black band indicates proper inflation, while green, yellow, and white bands represent descending pressure levels. Red indicates overinflation.

The floorboards are marine mahogany plywood, finished in polyurethane. The keel is made of the same material, reinforced with an aluminum support. It breaks into two parts for storage, and runs the length of the boat when installed. Four bolts with handwheels are all that's needed for assembly.

The transom is held in place by a series of stainless steel bolts. The intent is not disassembly by the owner, but rather consistency of manufacturing methods. If the transom is damaged, it can be replaced easier than one which is glued in place. An aluminum plate on the transom serves as the motor mount. The plate is adjustable for height, to custom tune the engine and propeller position.

A manual drain valve is easily operated by a lever which extends from the floorboard at the base of the transom. It is not a one-way valve, so it must be closed when the boat is not moving.

There is no rubber on the boat at all. Exterior carrying handles, oarlock fittings, and remote steering fittings are all plastic. A stainless steel handle at the bow serves as a towline attachment point. Interior grab handles for passengers can be added by the dealer. Other factory options include launching wheels, a locking device for gas tanks, a folding stainless steel ladder and a boat cover.

The E 4's hull has been modified with a slight flare on the bottom of the pontoons, just forward of the tail cone. This acts as a trim tab, bringing the bow down on an efficient plane. The result is greater load capacity with a lower horsepower engine. This feature, combined with a wooden keel running the entire length of the boat, gives the E 4 excellent ride characteristics for an inflatable. A rigid keeled inflatable tracks better with less side slip on turns and less bounce in swells than boats with inflatable keels.

The E 4 is small enough to carry on top of a small van, or to launch on its wheels. We launched it easily from a trailer at Dana Point Harbor. With three adults and a set of dive gear aboard, the Suzuki 40 horsepower engine just loafed to bring it up on a plane. Lagomarsino estimated that 25 horses would easily do the job. However, four to five divers with full gear would need the bigger motor.

Most of my experience has been in inflatable keeled boats, so I could appreciate the difference a rigid keel makes, especially in turns. The E 4 turned in a tighter circle, with less slip. It gets high marks on handling, as the engine pushes it along on an easy plane at just over half throttle. Spray came over the pontoons, but that could be minimized with the addition of a bowdodger and windshield.

The Eurovinil E 4 can be many things, from a no nonsense open dive boat to a luxury cruiser and speedboat. In its diving configuration it handles well and should provide many years of trouble free service, backed by the longest guarantee in its field. It sells for $3,500 at your Eurovinil dealer.

CAVALERO Line Gobbler

Ocean Dynamics Introduces A Revolutionary Device Which Stacks And Stores The Speargun Line

TEXT AND PHOTOGRAPHY BY ERIC HANAUER

One of the major hassles of spearfishing is what to do with the line when reloading. It often gets tangled or slips off the retainer hook. A lot of time is spent swearing at it. It's enough to make a hardcore spearfisherman turn to underwater photography.

Cavalero has come to the rescue with a new accessory from France which gobbles up ten feet of line within three seconds. Known as the Line Gobbler, it is a small, piston device that attaches to a speargun and uses water pressure to inhale up to ten feet of line. The pump was developed by Cavalero for its Arbalete spearguns, but will fit any gun with a one inch diameter barrel. An adapter is being made that will allow the device to be attached to a one and one-eighth inch barrel, so it can be used with most spearguns available in the United States.

The Gobbler consists of a six inch aluminum tube in a Cycolac housing with rubber valves. The braided nylon line is stored inside and feeds out with virtually no resistance when the shaft is fired. To retrieve the line, the diver merely pumps the aluminum piston three to four strokes through its two and one-half inches of travel. The pump sucks in water through a small orifice in front, and with it comes the line.

According to Cavalero, this line pump offers several advantages over the traditional method of stringing a line on a speargun. First, the risk of snagging is eliminated because no line is stored on the outside of the gun. Next, there is no need to chase and retrieve the line manually. Three or four pulls on the piston retrieve it within seconds. Finally, the range and accuracy of the speargun is enhanced, because the line is pulled along by the spear itself. There is no braking or unbalancing action as is the case with a conventional line clamp which forces the line to uncoil a loop in the water.

The Line Gobbler is so new in this country that when I received it for testing, there were no instructions. I got on the phone and called Nick Icorn, the manager of product development and chief engineer for Ocean Dynamics, the exclusive distributor for Cavalero products in the United States. In addition to being a highly respected engineer, Nick is the dive industry's unofficial equipment historian. I figured if Nick couldn't help me, no one could.

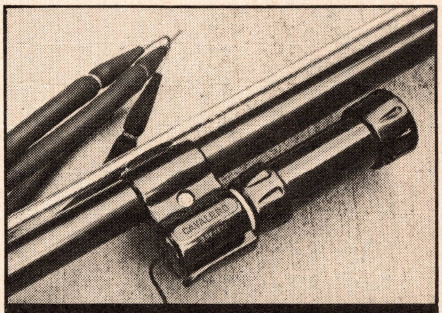
He couldn't help me. The product had just arrived from France and Nick hadn't had a chance to use it. However, he promised to look it over and get back to me. By the next day, Nick had taken the pump apart, put it back together and figured out what made it tick. He told me more about it than I ever thought I wanted to know.

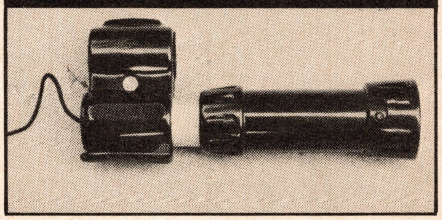
Armed with all this information, I set out to test the Line Gobbler off Point Loma in San Diego. Its performance backed up the manufacturer's claims. After every shot, it inhaled the line with three to four pumps. I even twisted the line in attempts to kink it, but it worked easily every time. No drag was detected on the shaft when firing, although more extensive tests are needed to back up the claim of improved accuracy. The claim makes sense, however, because the line feeds out with no perceptible resistance.

Water pressure is needed for the Line Gobbler to do its job, so it works only when submerged. A clip on the bottom secures the line on land to prevent its spilling out accidentally. If it does, stuffing it back inside the small hole is a tedious process.

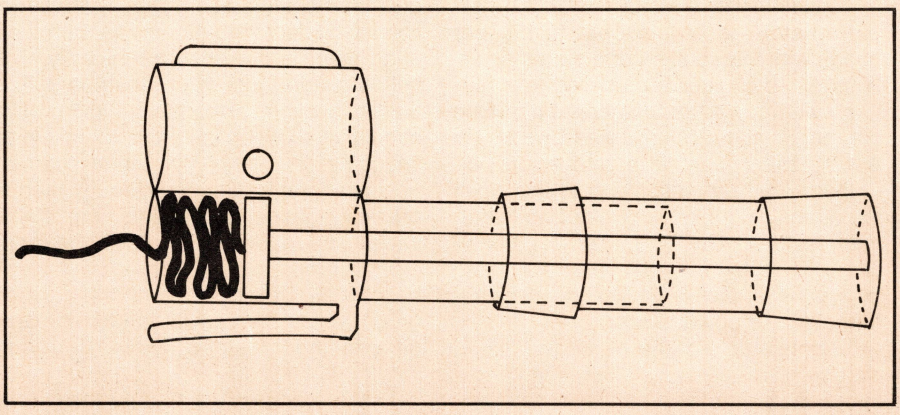
The pump should be installed just behind the muzzle of the speargun to take full advantage of the ten feet of line. Owing to its size and the diameter of the hole, it works only with braided nylon line up to ten feet in length. If the line breaks it can easily be replaced.

Maintenance consists of rinsing with fresh water and occasional lubrication of the diaphragms with silicone spray. Owing to its simple concept and quality construction, the Line Gobbler should give many years of trouble free service. It sells for $20 at your local dive shop. For further information, contact Ocean Dynamics International, 363 W. Victoria Street, Gardena, CA 90248.





The Line Gobbler attaches to the body of the gun. With just a few pumps it will retrieve 10 feet of line.



The SeaVest is basically a jacket BC without back flotation. When inflated, buoyancy is concentrated in front of the diver, behind the neck, and low on the sides of the chest. Thus, the diver floats high in the water, in a vertical position. This gives the wearer a better angle from which to see a dive boat, buddy, students, etc. There is less bulk on the diver's chest than there is with a horse collar BC. And, the absence of back flotation will appeal to those divers who feel hemmed in by BC jackets.

The SeaVest provides 33 pounds of buoyancy. It has a double bag design. The outer covering is tough, good-looking, 420 denier nylon, the inner bag is 15 mil thick urethane.

The SeaVest comes with a backpack. The pack's shoulder and waist straps slip through sleeves sewn inside the BC. To increase diver comfort there are neoprene pads that cushion the shoulders. A larger neoprene pad on the waist strap cushions the diver's back from the strap and pack. This pad has a sewn-on cover.

SeaQuest has added other special features to the SeaVest. A one inch wide, adjustable web strap closes the front of the vest above the waist strap. When latched by the snap-in polyethylene clasp, this strap prevents the front panels of the vest from sliding. The backpack waist strap can be adjusted separately. Fold-over Velcro hose retainers keep SPG, octopus and power inflator up front and easy to reach. Another fold-over flap locks the neck of the vest to the handle opening at the top of the backpack.

The large pockets on the SeaVest close with Velcro and have stainless steel D-rings and grommets inside. The D-rings allow you to attach car keys and other small, valuable items securely. There are mesh drain panels at the base of the BC and at the back of the neck. An overpressure relief valve is set under the right pocket and the emergency CO_2 inflator (optional) is under the left.

The inflator hose on the SeaVest gives the choice of manual inflation (button operated mouthpiece) or the use of a power inflator (provided with the vest). To vent air from the SeaVest, simply pull down on the inflation hose. A stainless steel cable links the mouthpiece end of the hose to a one-way Rapid Exhaust valve at the hose/vest junction. This combination of power inflator/dump valve on one hose allows quick, one-handed buoyancy adjustments.

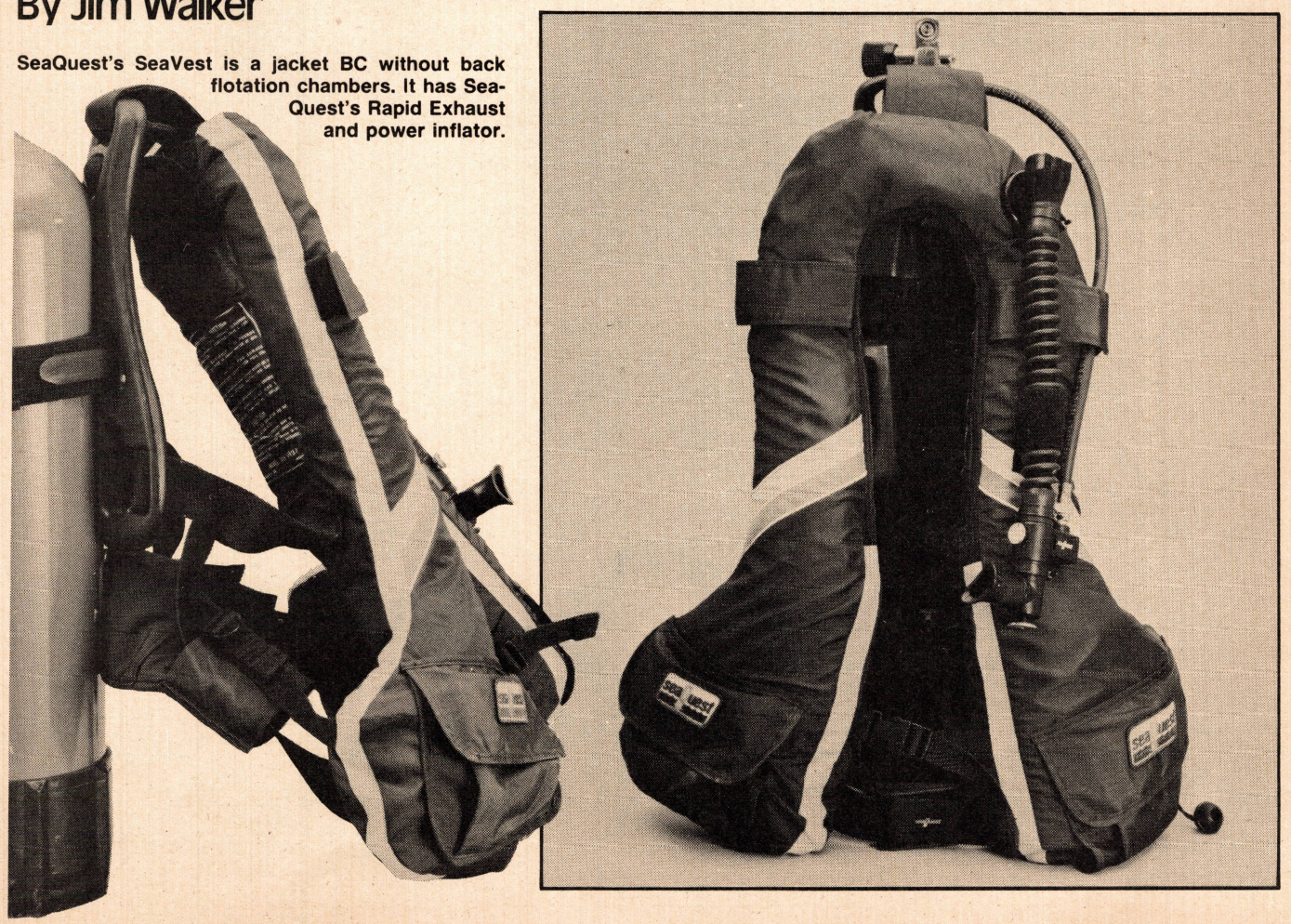
The SeaVest is sturdy and comfortable. If neither a horse collar nor a jacket BC seems quite your style, check it out. It is available in either blue with yellow and red trim or in yellow with blue trim. It retails for $275 with a 25 gram CO_2 cartridge or $262.50 with CO_2 stubbed-off. See your SeaQuest dealer.

SeaVest

SeaQuest Designs BC Jacket With 100% Front Inflation

By Jim Walker

SeaQuest's SeaVest is a jacket BC without back flotation chambers. It has SeaQuest's Rapid Exhaust and power inflator.



U.S. Divers Joins The Snorkel Revolution

Mistral XL Snorkel

TEXT AND PHOTOGRAPHY BY GERI MURPHY

This seems to be the year for snorkel innovations and U.S. Divers is no exception. The company's Mistral XL has a radical design that combines modern manufacturing technology with human engineering.

DESIGN

The main feature of the Mistral XL is the flex tube. This allows the mouthpiece to hang straight down when not in use. It does not interfere with the regulator mouthpiece or poke the diver under the chin annoyingly. The flexible belows are smooth on the inside. The tube flexes easily but delivers the air to the diver's mouth in a smooth uninterrupted flow.

One of the clever aspects of the XL design is the bellows convolutions. They are thicker on one side of the tube than the other, thus causing the mouthpiece to bend naturally toward the diver's mouth.

The snorkel has two sections and swivels in the middle. The swivel allows precise placement of the mouthpiece while the upper portion of the tube follows the natural contour of the diver's head.

The mouthpiece has a new anatomical design. The outer flange is smaller and thinner for a more comfortable fit. The bite lugs have been enlarged to allow a better grip and greater durability. The overall result is less gum contact and reduced irritation during extended usage.

The upper portion of the XL is a wide bore tube with a patented flair at the tip. The flair reduces entry turbulence and helps deliver a smooth flow of air.

A new snorkel keeper has offset grip tabs to make it easier to adjust the snorkel on the mask strap.

CONSTRUCTION

The lower portion of the Mistral XL is hypoallergenic silicone. The silicone wears extremely well and maintains its softness and flexibility in spite of lengthy use in salt water.

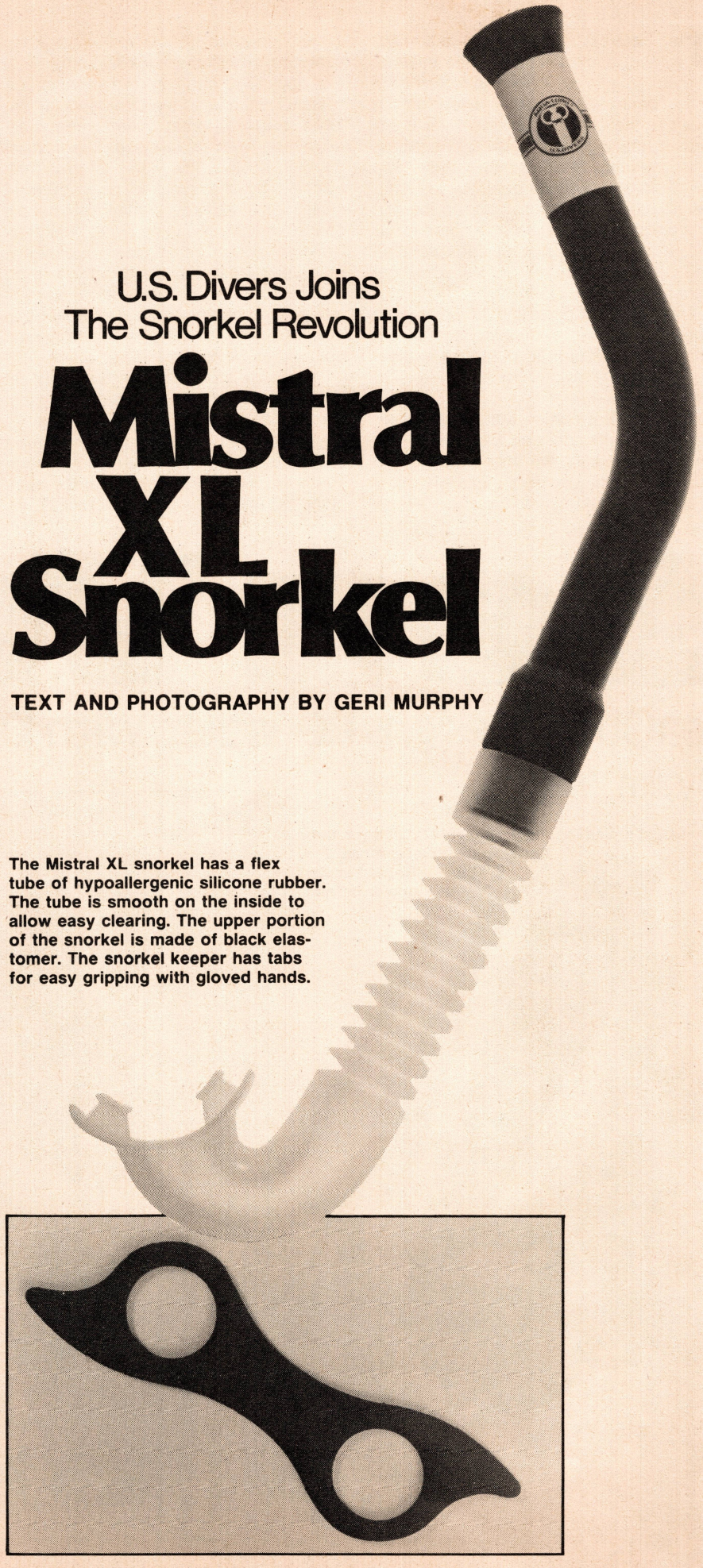
The upper portion of the snorkel is made of a black elastomer which is resistant to ozone and ultraviolet rays. It is available either straight or contoured.

The two portions of the snorkel are precision molded and fit together so snugly there is no leakage. A bright yellow vinyl decal is wrapped around the top for high visibility.

CONCLUSION

U.S. Divers is offering five different models of the Mistral XL ranging in price from $10.50 to $15.50. The selection includes silicone or black elastomer mouthpieces with straight or contoured barrels, plus a solid, one-piece economy version.

The Mistral XL is truly a departure in snorkel design, and could bring more pleasure to your surface swimming. For more information write to: U.S. Divers Co., 3323 West Warner Avenue, Santa Ana, CA 92702.



The Mistral XL snorkel has a flex tube of hypoallergenic silicone rubber. The tube is smooth on the inside to allow easy clearing. The upper portion of the snorkel is made of black elastomer. The snorkel keeper has tabs for easy gripping with gloved hands.

THE VEST OF BOTH WORLDS.

Divers told us what they wanted in the ideal buoyancy compensation system. Then we designed it. The result is the Sea Vest.

Sea Vest buoyancy is located on the front and behind the neck, as on a front mount B/C. But it has the comfort and precise buoyancy placement of a jacket. In other words, the Sea Vest combines the best of both.

On the surface, the Sea Vest's low center of buoyancy lets you float face up, high out of the water, or swim in a natural position. Plus, you have the unrestricted vision of a jacket.

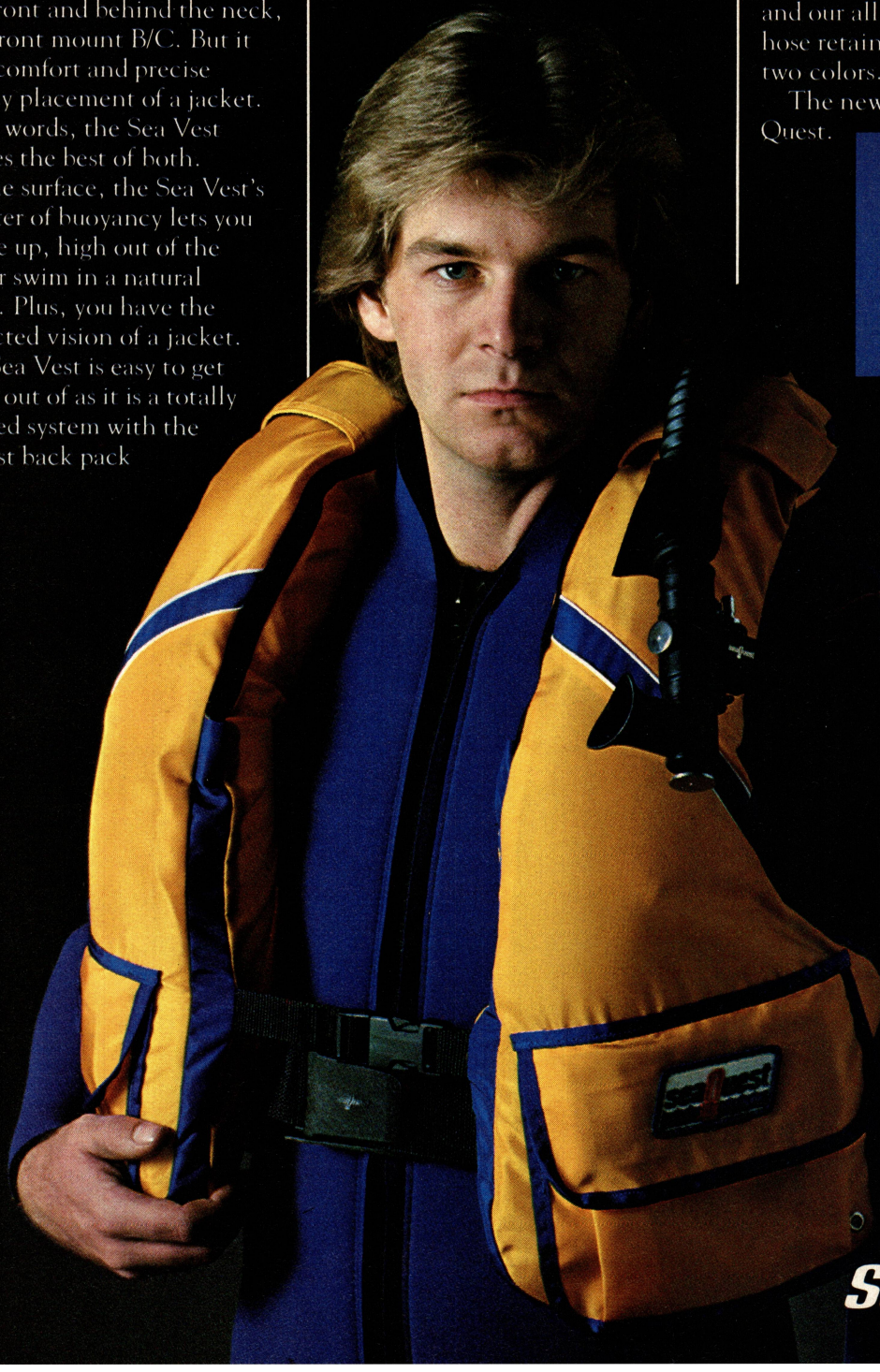
The Sea Vest is easy to get into and out of as it is a totally integrated system with the SeaQuest back pack built in.

In addition, a "body band" makes the Sea Vest fit securely and eliminates the need for a crotch strap. For added comfort, the tank shoulder harness straps pass through padded shoulder guides.

Sea Vest has all the top of the line features you expect from Sea Quest, including one-handed buoyancy control provided by the LP inflator and R/E valve. Plus two large pockets with D-rings, and our all new Velcro fold-over hose retainers. Available in two colors.

The new Sea Vest from Sea Quest.

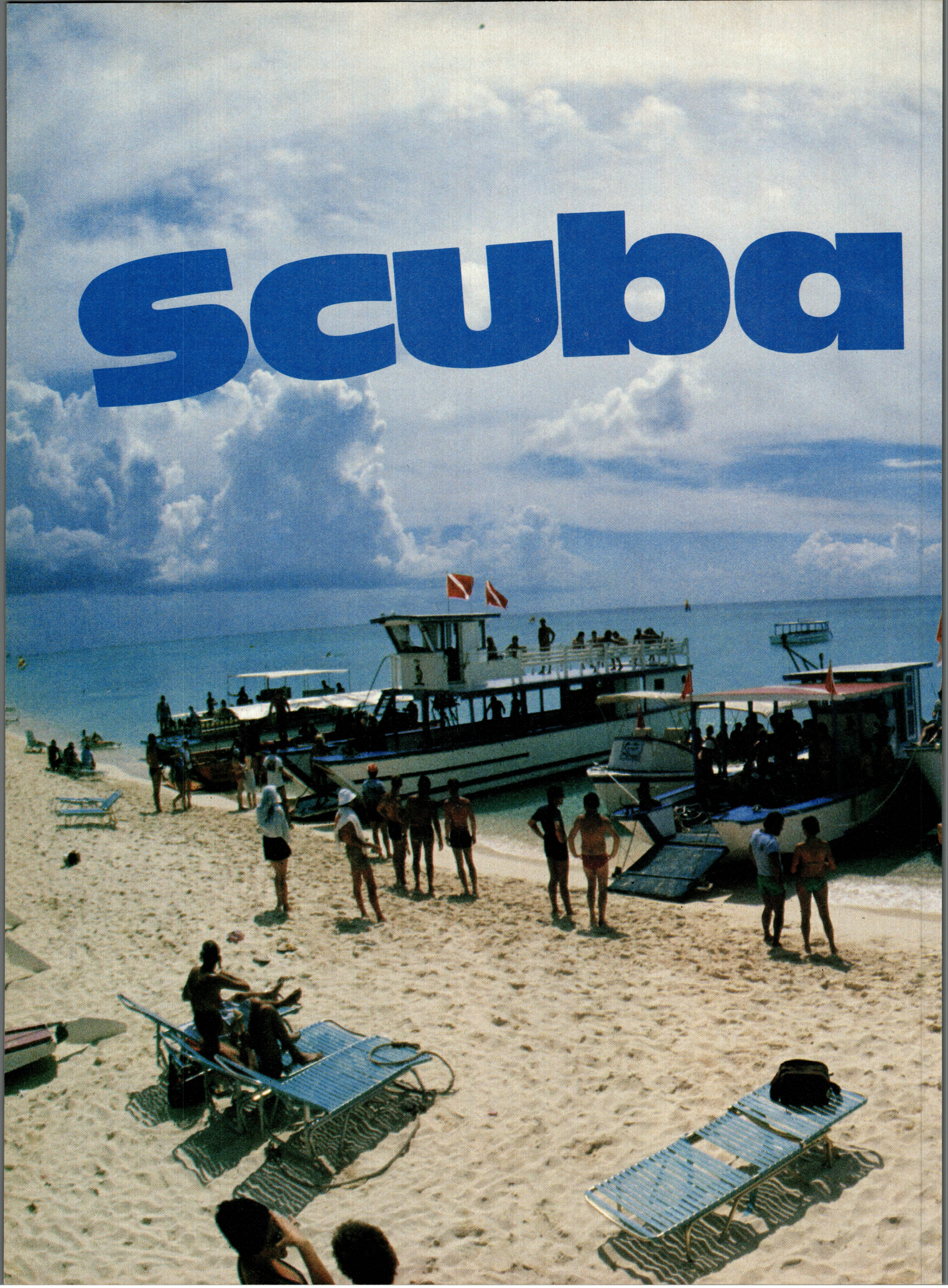




For both SeaQuest and Mares full color catalogs and SeaQuest emblem send $2.00. Postage and handling included.

Sea Quest, Inc., 722 Genevieve St., Suite N, Solana Beach, CA 92075, (714) 755-5196. Hawaii — Rann, Inc., 2979 Koapaka St., Honolulu, HI 96819. Canada — Seaway Manufacturing Ltd., 17919 Roan Place, Surrey B.C. V3S 5K1, (604) 576-9424.

seaQuest


scuba

Bowl 2

Dive Shops Go To Travel School

TEXT AND PHOTOGRAPHY BY GERI MURPHY



Scubabowl II, a week-long dive/travel seminar for dive stores and scuba instructors, is scheduled to take place on Grand Cayman September 25 to October 2. The purpose of the seven days of lectures, slide presentations and familiarization dives is to acquaint dive store operators with the attractions and facilities of the Cayman Islands and assist them in organizing Cayman Island dive tours. The dive store operators and instructors learn first-hand which resort hotels and dive boats best suit the individual needs of their customers back home. Scubabowl I, last year, attracted more than 75 people.

Highlighting the Scubabowl II program will be lectures and slide presentations by Paul Tzimoulis, editor/publisher of SKIN DIVER Magazine and Al Hornsby, vice-president, education and public affairs, for PADI. Both gentlemen are well known throughout the dive world for their expertise in dive travel promotion and U/W photography. Additional lectures and discussions will be conducted by representatives from the airlines, tourist board and resort community.

Headquarters for all seminar activities is the Grand Caymanian Holiday Inn on Seven Mile Beach. Lectures are conducted every morning and in the afternoon there are trips to a variety of drop-offs, wrecks and coral reefs. The evenings are devoted to visits to various Cayman resort hotels which cater to visiting divers.

Enrollment in the Scubabowl II education program is limited to dive store owners, managers and scuba instructors. A special all-inclusive seminar package price is being offered to participants with hotel and airline rates reduced 50 percent. For reservations or additional information, dive stores can contact Linda Taylor, Special Promotions, Cayman Airways, 9999 Richmond Ave., Suite 131, Houston, Texas 77042.

Padi Photo Search '81 WINNERS

BY JEFF NADLER

The winners of the Third Annual PADI Underwater Photography Search/Competition have been chosen. Judging was based on technique, composition and lighting, along with special points for degree of difficulty. This year's winners were shot from Midwest lakes to Red Sea gardens; one winner used 110 format.

Designed to provide non-professional underwater photographers with the chance to win prizes and publication opportunities, the Fourth Annual Search/Competition will be held from August 1 to September 30, 1982. Contestants must first enter a local contest held at one of the 600 sanctioned PADI Training Facilities around the world. Local winners are then submitted to PADI Headquarters for regional judging. Regional winners, in turn, compete for the Grand Prize.

Prizes awarded for 1981 included thousands of dollars worth of dive gear and trips, custom prints from Scuba Chrome, an Encore two-projector dissolve unit, publication in The Undersea Journal and SKIN DIVER Magazine, and a deluxe one-week vacation to San Salvador Island in the Bahamas.

1982's prize list will be even more extensive. For complete information on the next contest, and a list of PADI Training Facilities, contact PADI Underwater Search/Competition 1982, 1243 East Warner Avenue, Santa Ana, CA 92705; (714) 540-7234.



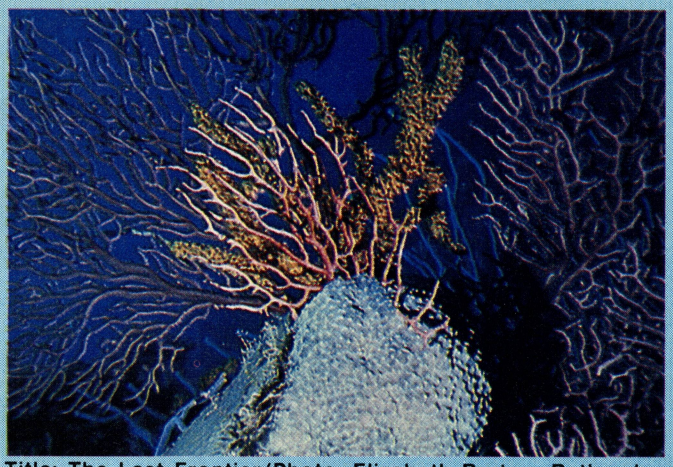
Grand prize: A diver carefully caresses a trusting fish/Title: Friends/Photographer: Don Anderson, St. Louis, MO/Submitted by: Inner World Diving Center, St. Louis



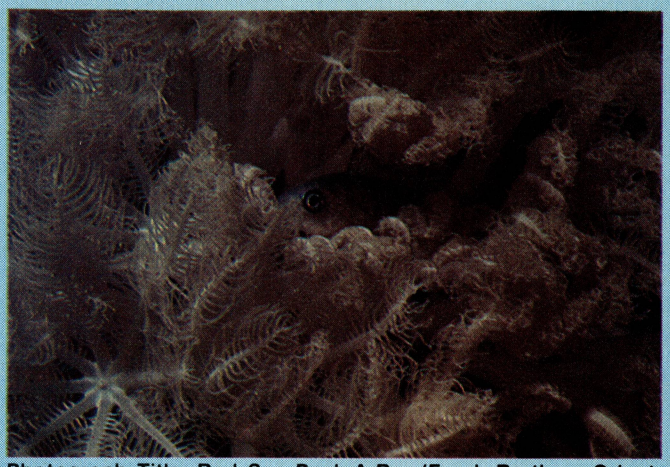
Title: Squirrelfish/Photographer: Philip Ashwood, Calcium, NY/Submitted by: Skindiving School of West New York, Buffalo



Photograph Title: West End, Roatan/Photo: Ralph Oberlander, Arlington, MA/Submitted by: New England Divers, Beverly, MA



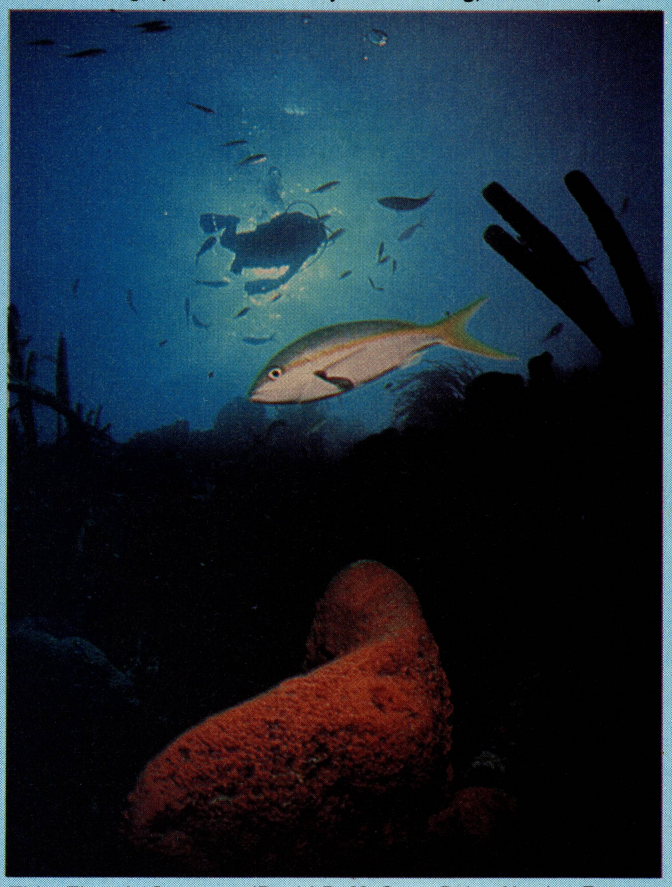
Title: The Last Frontier/Photo: Elizabeth Barton, Bethesda, MD/Submitted by: American Watersports of VA, Falls Church



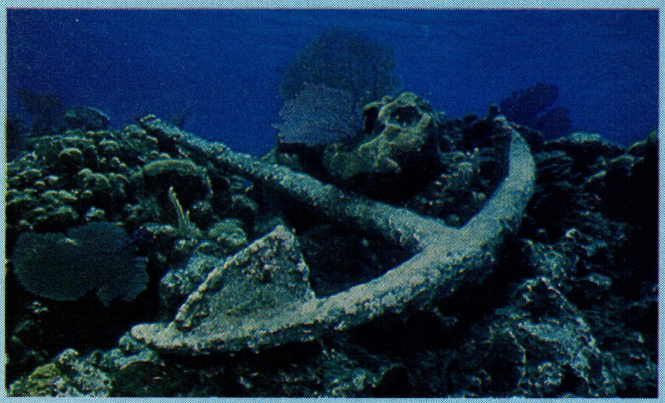
Photograph Title: Red Sea Peek-A-Boo/Frank Barthen, Orient, Ohio/Photograph submitted by: Ask Diving, Columbus, Ohio



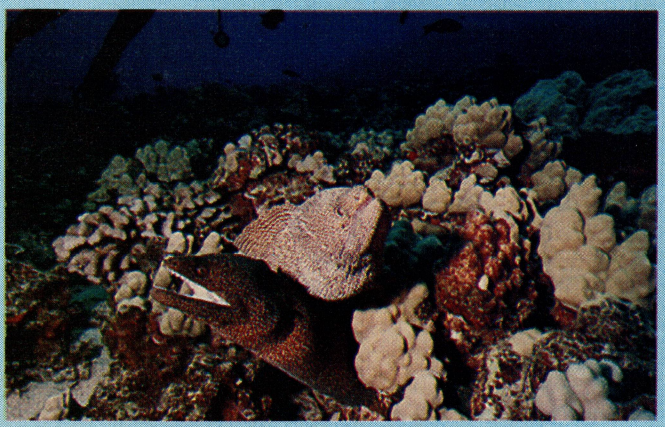
Title: Man and Manatee/Photographer: Steven W. Hall, Orlando, Florida/Submitted by: Hal Watts Watersports, Orlando



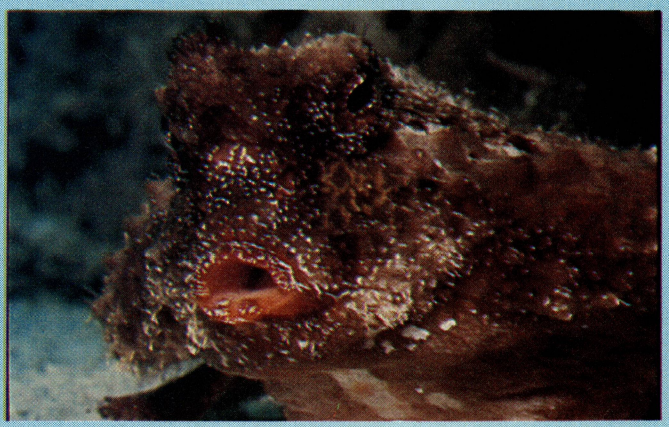
Title: Three's Company/David D. McCray, Palos Verdes Estates, CA/Submitted by: Ocean Sports, Huntington Beach, Calif.



Title: Underwater Find/Judith Jaggard, Janesville, WI/Submitted by: The Deep End Scuba Training Center, Fond du Lac



Photograph Title: Serenity/Jane Jurach, Las Vegas, Nevada/ Submitted by: Four Seasons Diving Center, Reno, Nevada



Photograph Title: Hot Lips/Photographer: Richard Jacobsen, Austin, Texas/Submitted by: J. Rich Sports, Austin, Texas

Table 7-6, Diagram of Dives in Table 7-5

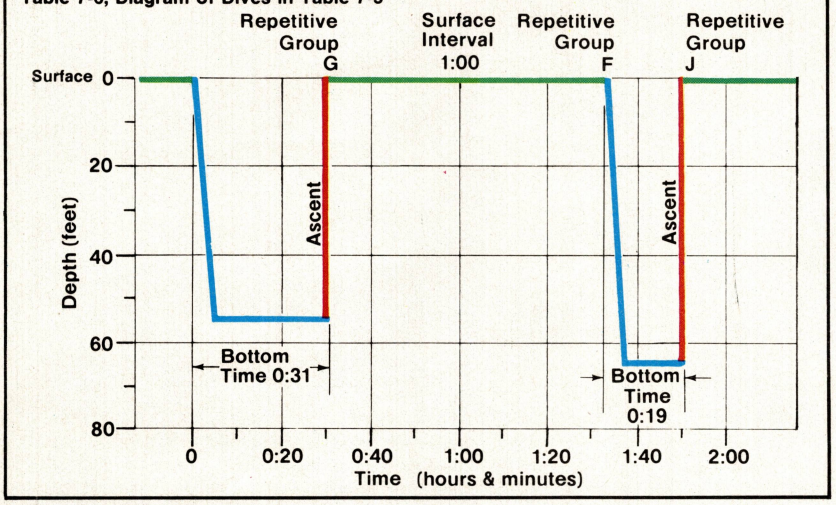


Table 7-5, Repetitive Dive Work Table

	Depth (feet)	Time (hours & minutes)	Repetitive Group
Previous Dive	54	0:31	G
Surface Interval	0	1:00	F
Repetitive Dive	62	No-decompression Limit = 0:50 Minus Residual Nitrogen Time — 0:31 Equals Actual Bottom Time = 0:19	J

Scubapro's No Decompression Repetitive Dive Tables (opposite page) have three distinct sections. Begin at top, right. Table 7-5 (above) is a work sheet that provides a record of your dives. Table 7-6 (left) is a diagram of the dives in Table 7-5.

SCUBAPRO DIVE TABLES

This month, in addition to bringing you another set of repetitive dive tables, we are also providing you with a work sheet and diagram which will help you use them. All three are reprinted from *Recreational Diving: A Complete Diving Text* by Tom Jerussi, Ph.D. Dr. Jerussi has more than 20 years of civilian dive experience, plus, he spent several years with the U.S. Navy UDT and SEAL Teams. The book was in production for four years. Published and sold by Scubapro, it is well written and well illustrated by black/white and color photographs as well as drawings. It covers diving from A to Z. And, we'll use an example from the text to explain the three tables reproduced on these pages.

Two divers decide to dive on a rock formation. Two dives are planned, one to the top of the formation—54 feet—and one to the bottom—62 feet. On the first dive their bottom time amounts to 31 minutes. After a surface interval of one hour, they make the second dive. How much no decompression bottom time will they have at 62 feet?

Let's give you a brief orientation to the tables before we work the problem. Scubapro has integrated the repetitive dive tables into one, but there are still three distinct sections: Table 7-1, No Decompression Limits and Repetitive Group; Table 7-2, Surface Interval; and Table 7-3, Residual Nitrogen Times.

The word Start and a big black dot at the far right of Table 7-1 show you where to enter it. Remember, any time a specific depth or time are not shown on the tables you must use the next greater one. Our divers were at 54 feet for 31 minutes but neither depth nor time appears on the tables. Thus, we must use 60 feet for 40 minutes in our calculations. Enter Table 7-1 at 60 feet and read left to 40 minutes. Then read straight down to G on Table 7-2. This means that after their first dive, our divers are in repetitive group G. They spend one hour planning their second dive to 62 feet. What group are they in at the beginning of this second dive and how much bottom time have they got?

Read right from the G to the time of the surface interval: One hour (1:00) falls between 0:41/1:15. Read straight down from this box to Table 7-3. Across the top is the alphabet from A to O. Underneath the letters are numbers that represent the Residual Nitrogen Times at each depth (40 to 130 feet) listed on the far left. Residual Nitrogen Time (RNT) is the minutes a diver must assume he/she has already spent on the bottom at the beginning of a repetitive dive. RNT must be subtracted from the no decompression limit for a particular depth to determine Actual Bottom Time (ABT) remaining. Our divers are going to 62 feet. This must be considered as 70 feet on the tables. A group F diver has 31 minutes of RNT at 70 feet. On Table 7-1, we can see that the no decompression limit for that depth is 50 minutes. Subtracting 31 from 50 leaves 19. Thus, our divers may spend 19 minutes at 70 feet without decompression. When they surface after this second dive, they will be in group J.

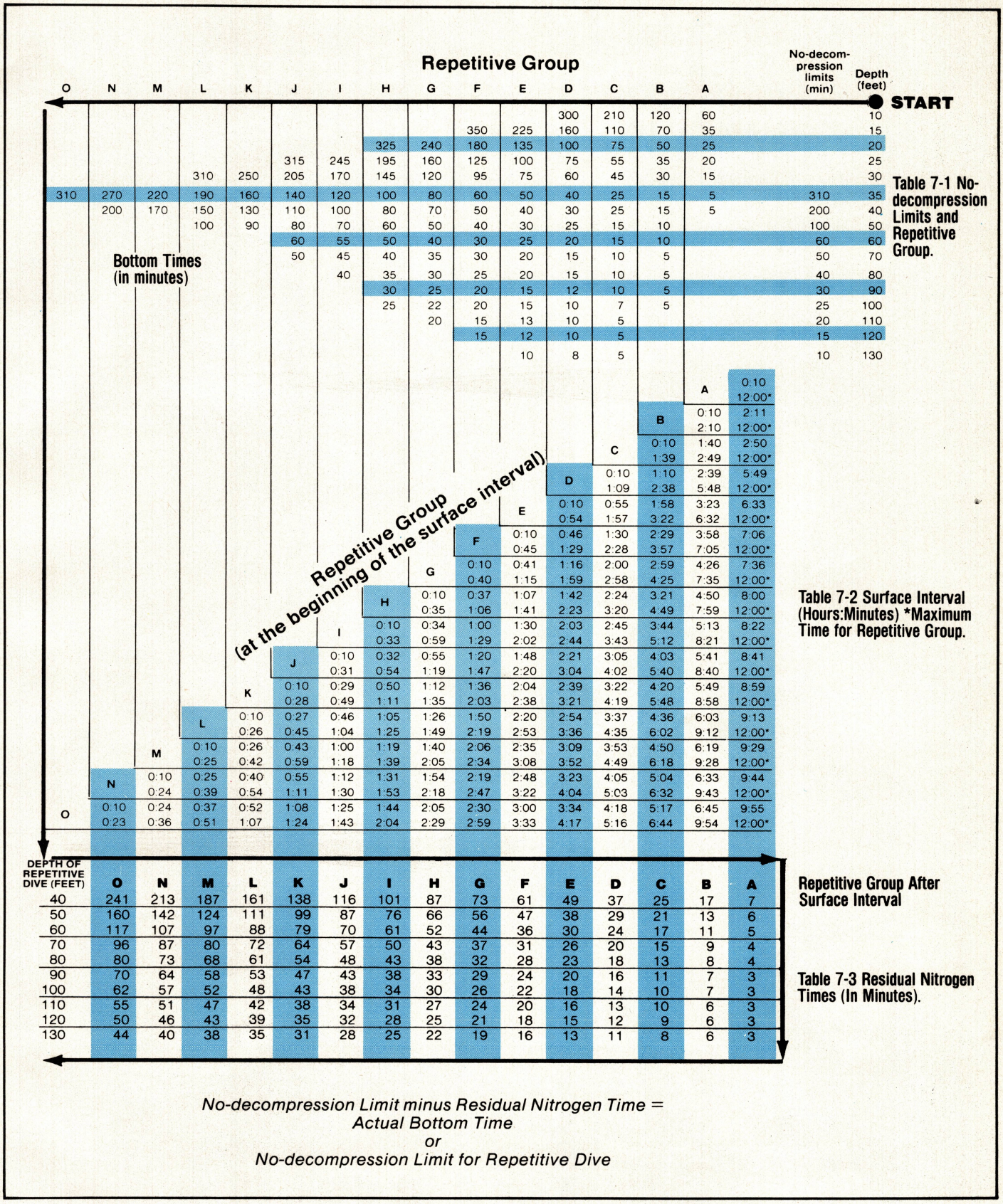
Now, look at Table 7-5. It is read from left to right, top to bottom. Using the same example of the two buddies and their two dives, we will show you how to use it. The first dive to 54 feet is the first entry, under Previous Dive/Depth. Directly to the right is the time spent at that depth, 0:31 (31 minutes). The buddies' repetitive group after their first dive, G, is the next entry under Previous Dive/Repetitive Group. Moving down to the next line we either skip or put 0 under Surface Interval/Depth because there is no depth for a surface interval. Reading right, there is an entry under Surface Interval/Time: 1:00 means one hour: no minutes was spent on the surface. The F in the next box (Surface Interval/Repetitive Group) represents the divers' group designation at the end of their surface interval. On the third line we find 62 entered under Repetitive Dive/Depth. This is the depth of the second dive. Under Repetitive Dive/Time there is a formula for computing Actual Bottom Time for this second dive. The last entry, J, under Repetitive Dive/Repetitive Group, is the diver's group designation after this last dive.

The last table, 7-6, is a diagram of the example worked out on Table 7-5. Green represents surface intervals, blue is Actual Bottom Time and red is ascent time. Remember, bottom time is figured from the beginning of your descent to the beginning of your ascent.

To help you work the repetitive dive tables you might want to make a facsimile of Table 7-5, minus the red/blue numbers/letters. It will also provide a record of your dives and surface intervals.

Before you take pen in hand to write us a letter, please note that although the divers in the example made their shallowest dive first, it is a much better idea to make your deeper dive first. Just for practice, work the tables with the depths reversed: A 40 minute dive at 70 feet followed by a 60 foot dive for ? minutes. Your divers should be in repetitive group H after their first dive and have 44 minutes RNT after their surface interval. If you come up with an ABT remaining of 16 minutes for 60 feet you have worked the problem correctly. And, your divers will be in group J after this second dive.

Copies of *Recreational Diving: A Complete Text* are available for $10.00 from Scubapro dealers.



	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
10												300	210	120	60
15										350	225	160	110	70	35
20								325	240	180	135	100	75	50	25
25						315	245	195	160	125	100	75	55	35	20
30				310	250	205	170	145	120	95	75	60	45	30	15
35	310	270	220	190	160	140	120	100	80	60	50	40	25	15	5
40		200	170	150	130	110	100	80	70	50	40	30	25	15	5
50				100	90	80	70	60	50	40	30	25	15	10	
60						60	55	50	40	30	25	20	15	10	
70						50	45	40	35	30	20	15	10	5	
80							40	35	30	25	20	15	10	5	
90								30	25	20	15	12	10	5	
100								25	22	20	15	10	7	5	
110									20	15	13	10	5		
120										15	12	10	5		
130											10	8	5		

	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
40	241	213	187	161	138	116	101	87	73	61	49	37	25	17	7
50	160	142	124	111	99	87	76	66	56	47	38	29	21	13	6
60	117	107	97	88	79	70	61	52	44	36	30	24	17	11	5
70	96	87	80	72	64	57	50	43	37	31	26	20	15	9	4
80	80	73	68	61	54	48	43	38	32	28	23	18	13	8	4
90	70	64	58	53	47	43	38	33	29	24	20	16	11	7	3
100	62	57	52	48	43	38	34	30	26	22	18	14	10	7	3
110	55	51	47	42	38	34	31	27	24	20	16	13	10	6	3
120	50	46	43	39	35	32	28	25	21	18	15	12	9	6	3
130	44	40	38	35	31	28	25	22	19	16	13	11	8	6	3

	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
A															0:10 12:00*
B														0:10 2:10	2:11 12:00*
C													0:10 1:39	1:40 2:49	2:50 12:00*
D												0:10 1:09	1:10 2:38	2:39 5:48	5:49 12:00*
E											0:10 0:54	0:55 1:57	1:58 3:22	3:23 6:32	6:33 12:00*
F										0:10 0:45	0:46 1:29	1:30 2:28	2:29 3:57	3:58 7:05	7:06 12:00*
G									0:10 0:40	0:41 1:15	1:16 1:59	2:00 2:58	2:59 4:25	4:26 7:35	7:36 12:00*
H								0:10 0:35	0:37 1:06	1:07 1:41	1:42 2:23	2:24 3:20	3:21 4:49	4:50 7:59	8:00 12:00*
I							0:10 0:33	0:34 0:59	1:00 1:29	1:30 2:02	2:03 2:44	2:45 3:43	3:44 5:12	5:13 8:21	8:22 12:00*
J						0:10 0:31	0:32 0:54	0:55 1:19	1:20 1:47	1:48 2:20	2:21 3:04	3:05 4:02	4:03 5:40	5:41 8:40	8:41 12:00*
K					0:10 0:28	0:29 0:49	0:50 1:11	1:12 1:35	1:36 2:03	2:04 2:38	2:39 3:21	3:22 4:19	4:20 5:48	5:49 8:58	8:59 12:00*
L				0:10 0:26	0:27 0:45	0:46 1:04	1:05 1:25	1:26 1:49	1:50 2:19	2:20 2:53	2:54 3:36	3:37 4:35	4:36 6:02	6:03 9:12	9:13 12:00*
M			0:10 0:25	0:26 0:42	0:43 0:59	1:00 1:18	1:19 1:39	1:40 2:05	2:06 2:34	2:35 3:08	3:09 3:52	3:53 4:49	4:50 6:18	6:19 9:28	9:29 12:00*
N		0:10 0:24	0:25 0:39	0:40 0:54	0:55 1:11	1:12 1:30	1:31 1:53	1:54 2:18	2:19 2:47	2:48 3:22	3:23 4:04	4:05 5:03	5:04 6:32	6:33 9:43	9:44 12:00*
O	0:10 0:23	0:24 0:36	0:37 0:51	0:52 1:07	1:08 1:24	1:25 1:43	1:44 2:04	2:05 2:29	2:30 2:59	3:00 3:33	3:34 4:17	4:18 5:16	5:17 6:44	6:45 9:54	9:55 12:00*

No-decompression Limit minus Residual Nitrogen Time = Actual Bottom Time
or
No-decompression Limit for Repetitive Dive

An Easy Reference Table With Illustrative Diagrams

BY BONNIE J. CARDONE

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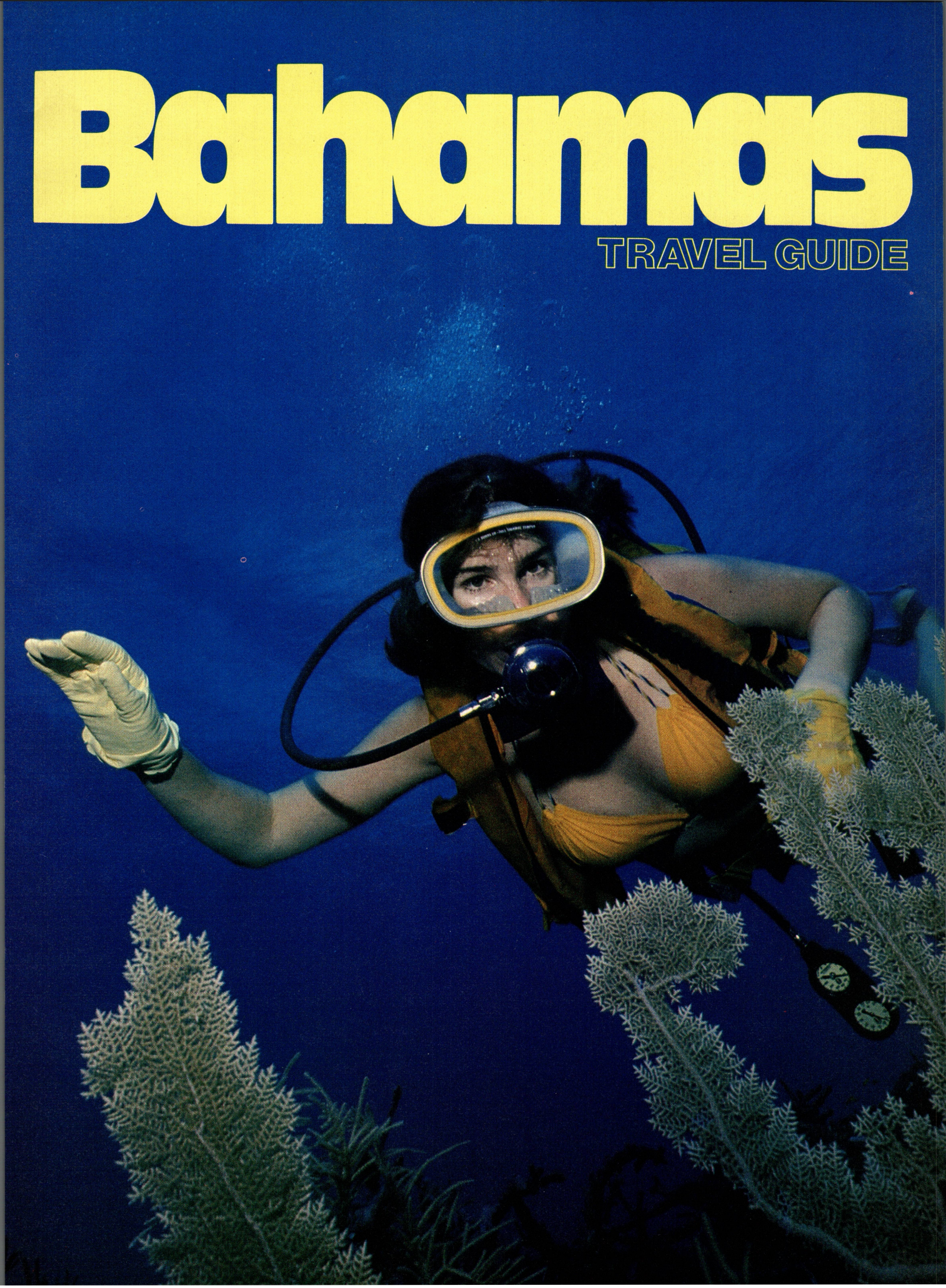
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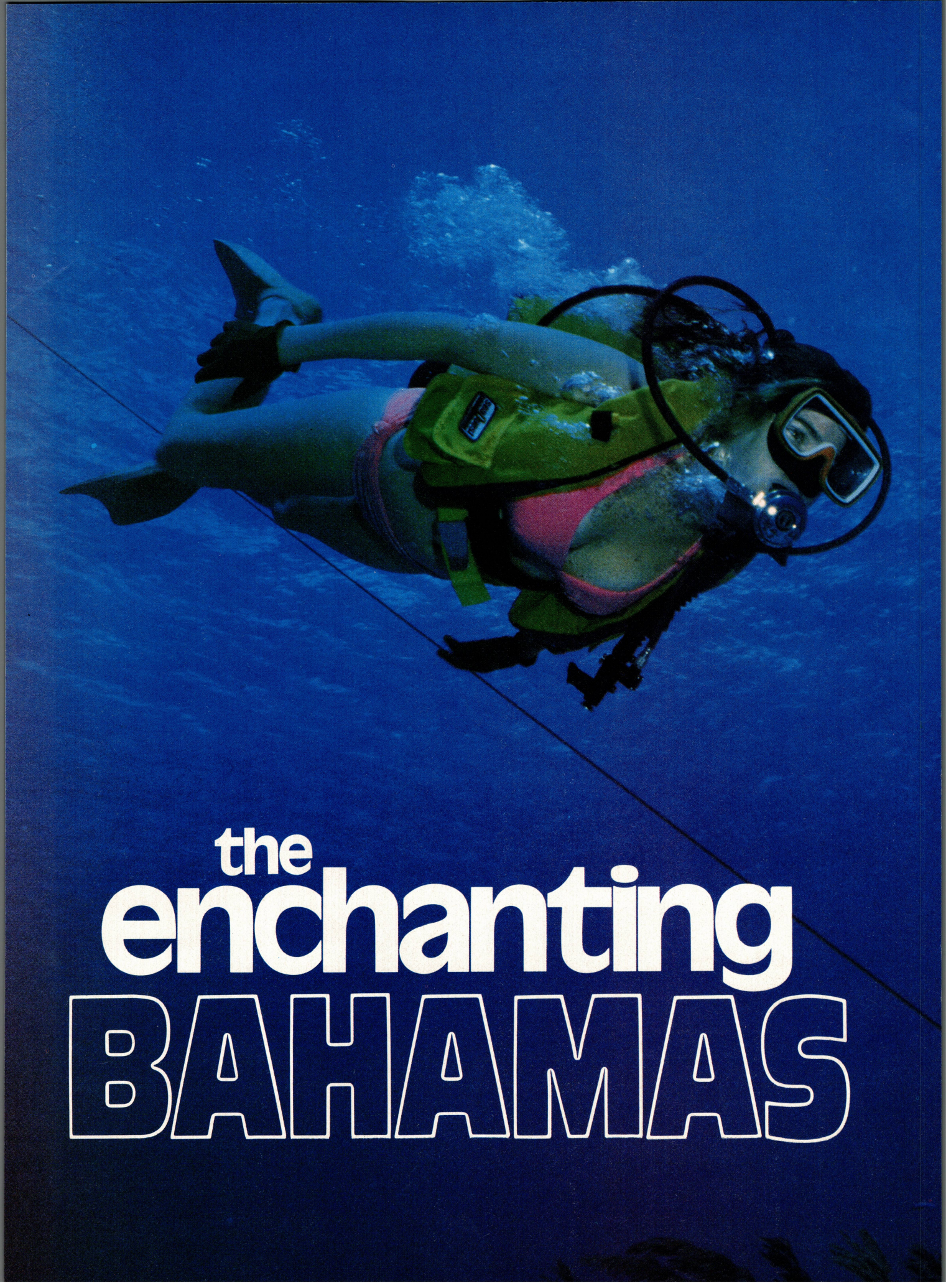
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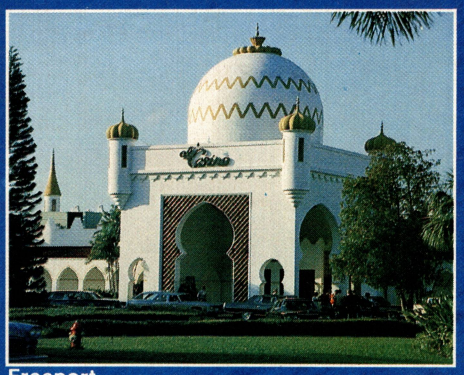
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Bahamas

TRAVEL GUIDE



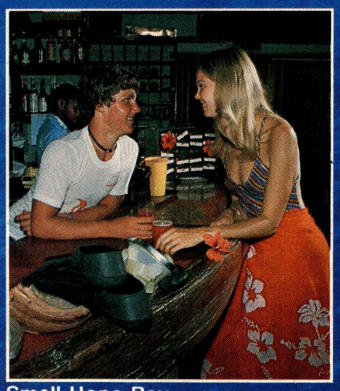

the
enchanting
BAHAMAS



Freeport



Stella Maris



Small Hope Bay



Bimini



Harbour Island

Opposite page: Underwater at Rum Cay

America's closest island neighbors

Text and Photography by Geri Murphy

Just a little more than a stone's throw from Florida's southeastern shore there lies an enchanting group of quiet islands known as the Bahamas. For the most part, this sprinkling of 700 isles and cays remains undeveloped and in perfect harmony with nature. It is a fairytale wilderness where a modern day Huckleberry Finn can explore a deserted lagoon; walk for miles on a white sand beach; or discover the wonders of a fish filled tidepool. Charming villages, friendly people and serene sunsets provide the perfect setting for a delightful vacation.

Their proximity to the U.S. coastline makes these tropical islands a perfect retreat for quick dive trips, long weekends, or more leisurely two week cruises. Convenient access to the Bahamas has vacationers flocking there by commercial jet, cruise ship, private aircraft and private yacht. Yet, despite the tourism boom, the Bahamas manage to preserve and maintain their natural charm. Industrialization is slow and controlled, for Bahamians are eager to preserve their most precious natural resource.

To divers, the Bahamas are legendary. Nassau is the birthplace of vacation diving, dating all the way back to the 1940's when the word scuba did not even exist in the American vocabulary. The Bahamas represent a very special world of spectacular coral beauty and an endless spectrum of undersea adventures. There are underwater sights and dive experiences in the Bahamas which exist nowhere else in the Caribbean. No less than 15 different islands are equipped with scuba facilities and dives are made among a total of 35 different islands, cays and pinnacles. Each island or group of islands has its own personality, special charm and specific undersea attractions. Each island is in a different part of the Bahamas chain, with distinct coral formations, ocean environments and special features. On an overall basis, the Bahamas are best known for their magnificent shallow coral reefs, vertical drop-offs and tremendous abundance of fish life. In certain areas, there are great forests of elkhorn and staghorn corals and, in other locations, vertical walls which seem to descend forever.

Bahamas

LOCATION

Geographically speaking, the Bahamas is an offshore island nation which lies closest to the continental U.S. The nearest Bahamian island is Bimini, only 50 miles due east of Miami.

Technically, the Bahamas constitute an archipelago (large group of islands) that spans a wide area of ocean. They are the tips of huge submerged mountains that rise from the abyssal depths of the Atlantic seafloor.

The Bahamas span a great arc of ocean, beginning at a latitude even with West Palm Beach and stretching southeastward 750 miles. The last of the Bahamian isles reaches almost to Haiti, snuggling close to the neighboring Turks & Caicos. This long string of islands is the dividing line between the Atlantic Ocean and the Caribbean Sea with both ocean environments sweeping through the scattered islands. Surrounding these islands are waters ranging from 6,000 to 12,000 feet deep.

HISTORY

Since the beginning of American history, there have been close ties between the Bahamas and the U.S. But for a fickle twist of history and a fervent desire for independence, the Bahamas might have actually become part of the U.S. and perhaps our 51st state.

When Columbus set out in search of the New World, he landed in the Bahamas, long before setting foot on American soil. During the American Revolution, many colonial plantation owners and their families migrated to the Bahamas from the Carolinas.

In the Civil War, southern blockade runners used the Bahamas as a sanctuary and trans-shipping point for contraband goods. Sea battles between Union and Confederate gunships often took place in Bahamian waters. During Prohibition in 1920, rum runners smuggled bootleg liquor from the Bahamas to U.S. shores.

Today, the Bahamas maintain close economical and commercial ties with the U.S. Tourism is their number one industry and American visitors are their biggest customers. Nassau is an international banking center for U.S. business firms. The Bahamian dollar is directly tied to the U.S. dollar, sliding up and down the international monetary scale along with the fortunes of the U.S.

FLIGHTS

Getting to the Bahamas can be easy if you know how. They are served by more airlines, running more flights, than any other islands in the Caribbean. There are no less than nine major airlines operating regular service into these islands plus a great number of smaller, commuter airlines.

Because of the vast size of the Bahamas and the great number of islands involved, the air routes are complex and somewhat confusing to the first-time visitor. You can fly into the major cities of Nassau and Freeport from at least 10 different U.S. cities and not all of the departures originate from strictly gateway airports such as Miami and Fort Lauderdale. For example, American Airlines is now offering a non-stop jet flight from Dallas to Nassau, while Air Jamaica flies direct from Chicago to Nassau.

In addition to the major jet carriers, there are a number of small commuter airlines which offer regularly scheduled flights to smaller islands such as Bimini, Chub Cay, North Eleuthera and Walker's Cay. These smaller, multi-engined craft are able to land on the shorter runways and provide direct air service from the U.S. mainland to the Family Islands. Still another way to reach the smaller islands is by flying to Nassau and then connecting to one of the dozens of daily Bahamasair flights that continue on to some 17 airports throughout the Bahamas chain.

Below, you will find a handy reference to those airlines with direct air service into the Bahamas.

There are a few smaller, more remote islands which are not serviced by commercial airlines. In these situations, the dive resorts or hotels operate their own charter flights. For example, the Rum Cay Club and the Riding Rock Inn Resort run regularly scheduled weekend flights from Ft. Lauderdale to Rum Cay or San Salvador Island. The Stella Maris Inn operates charter flights from Ft. Lauderdale or Nassau direct to Stella Maris on Long Island. Bimini Undersea Adventures also runs special charter flights from Ft. Lauderdale to Bimini for dive groups only.

PRIVATE AIRCRAFT

The Bahamas are blessed with an extremely fine system of airports. There are a total of 21 different airfields throughout the island chain. Runway lengths average 3000 to 5000 feet and most of them are paved. For specific information about private aircraft flights, weather and customs clearance, pilots should call the Bahamas Pilot Briefing Center. The U.S. toll free number is (800) 327-3853.

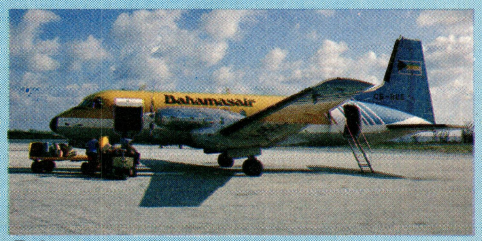
ENTRY

Tourist entry into the Bahamas is remarkably easy. Passports are not required for citizens of the U.S., U.K., or Canada. All that is required is proof of citizenship such as a birth certificate or voter's registration card. (A driver's license does not qualify as citizenship proof.)

All visitors must be in possession of three items: citizenship proof, return tickets and evidence of sufficient funds for



American flies from Dallas to Nassau.



Bahamasair flies from Nassau to most Bahamas islands, plus daily to the U.S.

Direct Air Service to the Bahamas

Origin	Destination	Carrier
Chicago	Nassau	Air Jamaica
Toronto	Nassau	Air Canada
Montreal	Nassau	Air Canada
New York	Nassau	Delta, American
Atlanta	Nassau	Delta, Bahamasair
Miami	Nassau	Eastern, Bahamasair, Chalk's
Ft. Lauderdale	Nassau	Eastern
W. Palm Beach	Nassau	Pompano Airways, Chalk's
Dallas	Nassau	American Airlines
London	Nassau	British Airways
Orlando	Nassau	Pompano Airways
Miami	Freeport	Bahamasair, Eastern, Air Florida
Ft. Lauderdale	Freeport	Air Florida
Ft. Lauderdale	Chub Cay	Pompano Airways
Ft. Lauderdale	N. Eleuthera	Pompano Airways, Air Florida, Bahamasair
Ft. Lauderdale	Walker's Cay	Walker's Cay Airline
Ft. Lauderdale	Bimini	Walker's Cay Airline
Miami	Bimini	Chalk's

Go Family Island hopping with a member of the family.



Bahamasair wants you to come meet the entire family—all twenty of our beautiful Family Islands. There's Eleuthera, The Abacos, The Exumas and seventeen other exotic destinations waiting for you. And we're the only airline that flies to all of them.

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For reservations call: Continental U.S.A. 800-327-8080; Florida (excluding Miami) 800-432-1375; Miami, 442-8585. Or see your travel agent. And remember, when it comes to the Family Islands, we don't just hop there. We live there.



Bahamasair

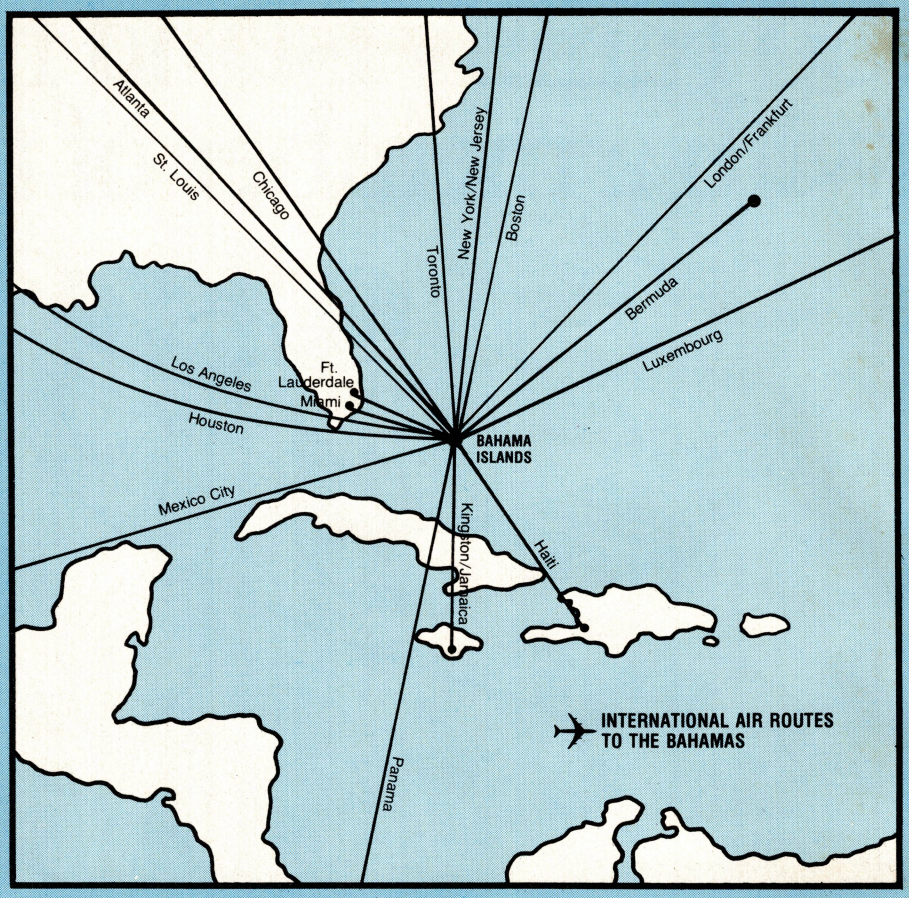
We don't just fly there. We live there.

Bahamas

their stay in the Bahamas. Upon entry, every visitor will be given an Immigration Card to fill out and sign. The card has a carbon copy which the visitor keeps until the end of the visit and surrenders upon departure.

Tourist visitors may make a verbal declaration of the contents of their baggage, but luggage is subject to customs inspection at the discretion of the Customs Inspector. There are restrictions on the amount of cigars and cigarettes and gifts which a visitor may bring into the Bahamas.

Under no circumstances should a visitor attempt to smuggle illegal drugs into the Bahamas. Bahamian drug laws are severe and violators will be promptly arrested and prosecuted. Penalties include very large fines and long jail terms. It does not matter whether the violator is caught with a kilo of cocaine or one-half ounce of marijuana—all offenders are treated harshly.



CLIMATE

The Bahamas is a place of eternal summer. Average temperatures range from 70 to 82 degrees. In the winter, when Chicago and New York are under three feet of snow, the Bahamas are sunny and the temperature averages 70 to 72°F. During the summer, the temperature rises to 82°but gentle ocean breezes maintain a pleasant environment.

Bahamas visitors should pack lightweight summer clothing for their visits. Swimsuits, shorts, lightweight slacks and short-sleeved sport shirts are ideal. Sandals or tennis shoes make excellent footwear. If you are planning to visit the gambling casinos and gourmet restaurants in Nassau or Freeport, you may want to bring along a lightweight cocktail dress or sport jacket for evening dress.

MONEY

Spending money in the Bahamas is surprisingly easy—in fact a little too easy at times. The currency system is based on the Bahamian dollar which is exactly equal to the U.S. dollar. The two currency systems are virtually interchangeable and U.S. dollars are accepted everywhere. In most stores or hotels you can pay your bill with U.S. dollars and receive change in either U.S. or Bahamian dollars, depending on your preference. Travelers Checks are also accepted throughout the islands and credit cards are recognized at most of the larger hotels.

ELECTRICITY

Underwater photographers and night divers will be delighted to learn that the Bahamas are on the standard North American electrical system of 120 volts at 60 cycles. Electrical convertors and outlet adapters are not required. However, there can be some fluctuation in voltage on some of the smaller islands where private generators are in use. Divers using chargers for underwater lights and strobes should first check the voltage with a volt meter.

BAHAMAS INFORMATION

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255 Alhambra Circle
Coral Gables, Fl 33134
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BAHAMAS RESERVATION SERVICE
255 Alhambra Circle
Coral Gables, FL 33134
(305) 443-3821

BAHAMAS TOURIST OFFICE
255 Alhambra Circle
Coral Gables, FL 33134
(305) 442-4860

FAMILY ISLANDS PROMOTION BOARD
255 Alhambra Circle
Coral Gables, FL 33134
(305) 446-4111

GRAND BAHAMA PROMOTION BOARD
255 Alhambra Circle
Coral Gables, FL 33134
(305) 448-3386

NASSAU PROMOTION BOARD
255 Alhambra Circle
Coral Gables, FL 33134
(305) 445-3705

PILOT BRIEFING CENTER
255 Alhambra Circle
Coral Gables, FL 33134
(305) 442-4867

BEACHES

Some of the greatest attractions of the Bahamas are the hundreds of miles of exquisite beaches. Practically every island has one or two outstanding examples which are ideal for sunbathing, swimming, casual snorkeling and sailing. The color of the sand can range from a sugar white to a lovely coral pink. Among the outer islands, these shimmering crescents are often uninhabited and the only footprints you will see are those you make.

FOOD

Because of their proximity to the U.S., Bahamians eat many of the same foods as Americans. Most hotels will serve a good cheeseburger for lunch and a fine steak or roast for dinner. In Nassau and Freeport you will find Kentucky Fried Chicken, plus a tempting selection of milkshakes, and ice cream sundaes.

On the other side of the menu however, you will find a fantastic list of speciality dishes which are strictly Bahamian. These are the fine foods that have helped to build the popularity and reputation of the Bahamas. Conch chowder is a spicy and delicious seafood soup concoction which often requires a second helping. Grouper fingers are perhaps the most delicate and sweetest fish fillet one could

possibly imagine. Bahamian bread is feather-light and sweet to the taste. Most visitors have two or three slices per meal and end up requesting the recipe. Other specialities worth sampling include: lobster salad, steamed conch, baked crab, johnnycake, and peas and rice.

LIVE ABOARD BOATS

There are a number of excellent live aboard dive boats which now cruise Bahamian waters. These ships are all licensed and approved by the Bahamian government. Some of them operate out of Florida ports such at Ft. Lauderdale and Miami while others are based right in the Bahamas, making their departures from either Bimini or Nassau.

There are pros and cons regarding spending your vacation on a live aboard dive boat. The obvious advantage is that you will certainly get more diving. On most live aboard vessels you can begin the day with a before breakfast dive and continue making dives at any particular time and place you wish. Night dives are equally convenient. There is also the advantage of not having to lug your scuba gear and underwater camera equipment from hotel room to dive shop to dive boat—all three are combined into one. Still another advantage is the fact that a live aboard dive boat can cover a far greater area and have the best of both worlds. Live aboard vessels can easily allow dives on the popular spots around well known dive resorts and then move on to more remote locations which are virtually inaccessible to half-day dive boats.

The disadvantages of a live aboard dive boat are equally obvious. Accommodations are compact and living space is limited. There is little privacy and you will all become close friends by the end of the week. Night life is quite limited and of course there is little opportunity to play golf, tennis, or go horseback riding.

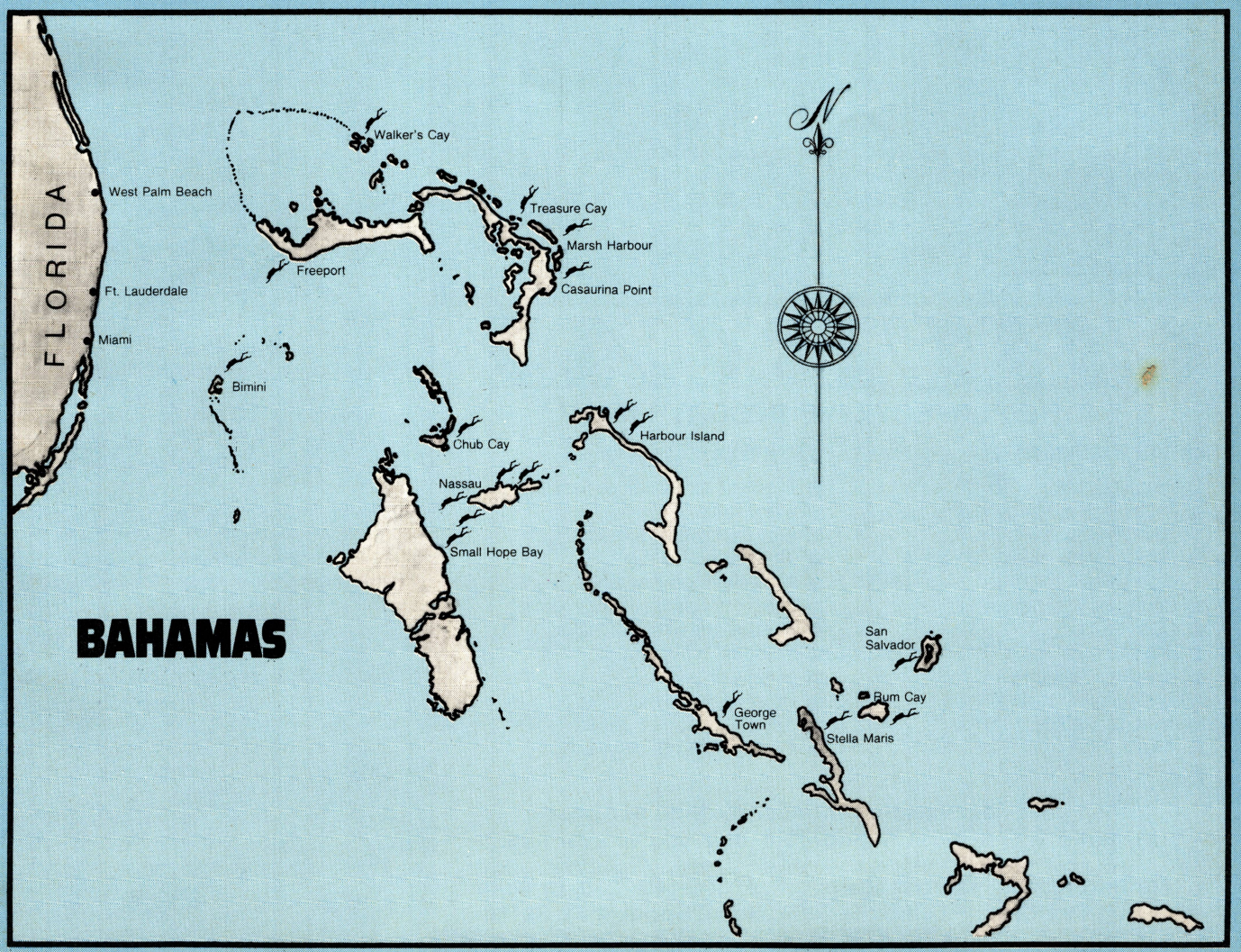
Live aboard dive boats can be an extremely satisfying vacation experience if you desire maximum amount of diving and an adventurous life at sea. Most live aboard dive boats operating in the Bahamas offer cruises of 5 to 14 days. These trips vary greatly in length depending upon the scheduled dates, desired destinations and overall price of the cruise. On a cost-per-dive basis, you certainly get more diving for your money.

PEOPLE

There are approximately 220,000 people in the Bahamas. They are friendly, kind hearted people who love to sing, play music and joke with visiting tourists. Everyone speaks English, as the Bahamas were formerly a British colony and grew up under the British school system. Today, the Bahamas are totally independent and very proud of their developing country. Since tourism is a major part of the country's economy, visitors are treated graciously and made to feel welcome.

DIVE RESORTS

The Bahamas greatest single attraction is the incredible variety of dive services and accommodations. Scuba facilities can be found at no less than 15 different resorts throughout the islands. The services range the full spectrum from small, one-man dive guide setups to large full service dive resort complexes. One must study and choose carefully for not all Bahamas dive operations are the same. Each is designed to cater to a specific type of diver ranging from the person who travels with a group to the highly independent diver who desires individual attention. The following is a brief synopsis of each resort, the type of services offered and the underwater attractions for which the resort is best known.



Bahamas

BIMINI

Bimini is the island closest to the Florida mainland—it's only 42 miles east of Miami. Its proximity to the U.S. offers easy access by either plane or private boat, and this area has become a popular destination for weekend visitors. A dive charter service, known as Bimini Undersea Adventures, is located on the pier at Brown's Hotel, North Bimini. Owned and operated by Neal Watson, this facility specializes in dive group services and offers attractively priced scuba packages for weekend junkets or full week vacations.

Neal is regarded as a local hero and legend in his own time for he has set several world records for such feats as deep diving and swimming underwater for an incredible distance of 66 miles! Neal is also one of the most safety conscious divemasters that you will ever meet and an absolutely superb underwater guide.

Bimini offers a wide variety of dive experiences ranging from snorkeling among shallow sea gardens to adventurous drift dives along the edge of the vertical drop-off. The **Concrete Ship** is the towering hulk of a 350 foot long World War I cement ship which grounded in the shallows during a hurricane. She stands upright in 15 feet of water and provides a unique opportunity for snorkeling. **Turtle Rocks** is a medium depth reef with two giant brain corals and a small coral cave inhabited by a jewfish. The **Kinks** is a high profile reef in 65 feet of water with many coral canyons and crevices. The **Continental Shelf** is a spectacular drop-off which faces the Gulf Stream. Divers hang onto a 100 foot anchor line while drifting along the face of this magnificent wall.

CHUB CAY

Perched on the very edge of a great drop-off known as the Tongue of the Ocean, Chub Cay has long been recognized for its extraordinary fish life. This small island is the home of one of the finest sportfishing resorts and the site of many game fishing tournaments. The resort is totally self-sufficient with its own airport, desalinization plant, two restaurants and large marina. Marina hotel accommodations are conveniently located next door to the dive shop.

Two years ago the hotel management installed a dive shop at the marina and the hotel now offers extremely attractive one week dive packages. The resort caters to both dive groups and individual divers, as well as providing resort courses for beginners.

Chub Cay is particularly popular for its spectacular wall diving. **Chub Cay Wall** is a vertical drop-off where schools of horse-eye jack, crevalle jack, and eagle rays are often seen. **Canyons And Caves** is a medium depth reef system which is honeycombed with narrow crevices, small caves, and canyons. This is an exceptionally beautiful formation with lush marine life.

Mama Rhoda Rock is a sprawling shallow coral reef loaded with elkhorn and staghorn. It is considered one of the best snorkeling areas in the Berry Islands. **Chub Point** is like a busy intersection for schooling fish, and visitors are often delighted by the continuous parade of marine life.

FREEPORT

Located at the elbow of Grand Bahama Island's south shore is Freeport, the second largest city in the Bahamas. Designed and built over the last 25 years, this modern resort community consists of luxury highrise hotels and stylish resort condominiums. Most of the buildings appear new and their surrounding grounds are beautifully landscaped with stately palms, colorful flowers and manicured shrubbery.

Often described as, "The Riviera of the Bahamas," Freeport is a well-planned city with every conceivable recreational facility. There are over 60 tennis courts and some 126 holes of championship golf courses.

From the very beginning, Freeport was designed with the tourist in mind. An International Bazaar is filled with small stores selling goods which have been imported from all corners of the world. Next door is a posh gambling casino of distinctive Moorish architecture. The visitor can choose from a vast array of more than 20 fine restaurants. It is the perfect holiday choice for singles who want to meet people; for young couples on vacation or honeymoon; or for people who simply enjoy a lively blend of outdoor recreation and night life.

Best of all, Freeport happens to be next to some of the finest diving in the northern Bahamas. A magnificent vertical drop-off lies barely one-quarter mile offshore and there is a wide selection of shallow and medium depth reefs.

Freeport is the home of one of the largest and most unique independent dive resort operations in the Bahamas. The Underwater Explorers Society (UNEXSO) is at the edge of a large marina basin and has its own docking facilities, with two large dive boats making five trips daily. The facility includes an 18 foot deep training tank, an indoor classroom which can hold up to 25 students, and an Olympic size swimming pool for instruction. There are scuba storage lockers for students and club members as well as showers, an exercise room, and a sauna. The club even has its own four-man recompression chamber for underwater medical symposiums. Upstairs there is a divers' lounge with music and films nightly. The lounge is completely air-conditioned and can accommodate up to 175 people. Other services include a complete underwater photography darkroom facility, a complete diver's library and a museum containing historical dive memorabilia.

UNEXSO specializes in a wide selection of underwater education programs. There are six different training courses ranging from basic scuba certification to advanced diver and instructor. Specialty

CHUB CAY

"THE PERFECT DIVE RESORT" WHY?

NATURE HAS PROVIDED:

- Beautifully clear water
- Abundance of fish & marine life (lots of spotted eagle rays)
- Coral gardens of every shape & description
- Gorgeous shelling beaches
- Night dives
- Close-in diving (avg. 5 min., longest 10)
- Awesome wall dive
- Photographic shallow reefs
- Famous snorkeling reef
- 1 hour flight from mainland
- Year round diving

WE PROVIDE:

- Excellent air conditioned accommodation
- Great Food
- Big, uncrowded dive boat
- Three dives full day
- No lugging gear or tanks
- Freshwater pool outside rooms
- Friendly and accommodating staff
- Welcome rum punches
- Groups of 2-20
- Relaxed safe diving
- Attractive package prices
- Relaxing atmosphere

Plan your next vacation with us. We'll do our best to make it the most memorable one you've ever had.

For information, call our Miami office: 305-445-7830, or write: Chub Cay Club, P.O. Box 661067, Miami Springs, FL 33166

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classes include decompression diving, basic underwater photography and blue hole exploration.

The waters around Freeport offer a wide choice of dive adventures which are suitable for divers of each skill level. **Treasure Reef** is an excellent shallow coral reef for snorkeling. **The Caves** is a really fine medium depth reef which runs from 60 to 80 feet. High coral ridges and narrow surge channels form an intricate system of canyonways, tunnels and caves. **Littlehales' Lair** is a massive coral reef formation at 80 feet which is covered with a heavy growth. A large coral cavern runs under the reef and is sometimes filled with a school of silverside baitfish. **Ben's Cave** is an inland blue hole filled with crystal clear water, stalactites and stalagmites and a rare species of blind cave fish.

GEORGE TOWN

George Town is the largest settlement in the Exumas and is at the southern end of the chain. This friendly resort community has an international airport, several hotels and a natural harbor.

George Town is the home of the Exuma Diving Company, an independent dive charter service operated by Wendle McGregor. Originally from Andros, Wendle has been diving for 17 years and worked at several other dive resorts before starting his own business. Wendle provides basic scuba instruction and daily dive trips for guests staying at the Out Island Inn and the Peace and Plenty Hotel. He has a compressor, rental tanks, and two dive boats.

The diving around George Town is mostly snorkeling, with shallow to medium depth coral reefs. One of the more unique attractions of this area is a series of ocean blue holes of varying sizes and depths. **Stingray Reef** is a large coral reef, in a cut between two islands, which offers a surprising variety of schooling fish. **Angelfish Blue Hole** is an ocean blue hole which slants, on a 45 degree angle, to a depth of 90 feet. A school of 15 large angelfish are frequently seen around the entrance to this tunnel. **Mystery Cave** is another ocean blue hole, consisting of a horizontal tunnel which runs under Stocking Island for a distance of more than 400 feet.

HARBOUR ISLAND

Harbour Island is a distinguished resort island community which lies two miles off the northeast corner of Eleuthera. Settled over 200 years ago by American colonists from New England, this picturesque settlement has become a quiet and relaxing hideaway for business executives and professional people who prefer to spend their winters in the tropics. Harbour Island is like a bit of Cape Cod which has been transplanted to the Baha-



Sleep next door to the famous Underwater Explorers Society.

At the beautiful Lucayan Bay Hotel.

In 1965, a group of visionaries set out to create the ultimate scuba diving resort on Grand Bahama Island. That dream became a reality: the Underwater Explorers Society and the Lucayan Bay Hotel. *Skin Diver Magazine* has called this complex *"one of the most modern dive resorts in the world . . . 15 years ahead of its time."*

At UNEXSO, dive sites are exciting, varied and nearby. 4 dive trips daily. Night dives. Inland blue hole. Reliable boats and equipment. Professional staff.

At the Lucayan Bay Hotel, everything is as casual as a soft Bahamian breeze. Every room overlooks the bay or the pool and tropical garden. Gracious service.

On fabulous Grand Bahama Island, you'll find miles of deserted sugar-white beaches, tennis, golf, horseback riding, fine dining, great nightlife, and round-the-clock casino gambling.

And you can have it all at special summer rates! Check out these super scuba packages:

UNLIMITED DIVING PACKAGE

Dive as many as 21 times in 7 days-- including night dives and cavern dives!

OPEN WATER CERTIFICATION

Complete scuba course includes 5 dives and all equipment. Classes begin first Monday of each month.

Dive Grand Bahama this fall!

At package prices you won't believe!

Both packages include:

7 nights at the Lucayan Bay Hotel.
Free continental breakfast daily.
Free bottle of champagne.
Free giant poster- "Dive Grand Bahama."

Rates per person:

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mas. This idyllic resort community offers a wide selection of watersports activities including sailing, fishing and water skiing.

Romora Bay is perched on a hillside with a beautiful view of the bay. Each guest bungalow is tastefully decorated in a different motif. The hotel is owned and operated by Roy Schmidt, a veteran diver and certified NAUI instructor.

Among the 30 different dive locations which have been charted by Romora Bay divemasters, **The Plateau** stands out as one of the most striking dives in the North Eleuthera area. A large coral plateau rises from 90 feet of water to within 40 feet of the surface. The top of this unique reef is loaded with stony corals, colorful sponges and tremendous numbers of fish. The **Glass Window** is a shallow depth reef littered with gigantic stone boulders which weigh up to 50 tons. These strange rock formations have tumbled into the sea from a nearby cliff and provide a haven for schooling fish. **Miller's Reef** is another submarine plateau which features a stunning coral archway which measures 100 feet across and provides an opportunity for spectacular photography.

Valentine's Yacht Club and Inn is at the water's edge and is a combination yacht facility, cozy hotel and dive shop. Owned and operated by Jack and Jim Valentine, this establishment caters to individuals, couples and small dive groups. There is a fully equipped dive shop with a compressor, rental tanks and three dive boats. Trips to the reef are conducted twice daily.

Valentine's divemasters make excursions to all major dive sites on both the south and north end of Harbour Island.

MARSH HARBOUR

Located in the central district of Great Abaco, Marsh Harbour is the third largest city in the Bahamas. It is a commercial center as well as a resort community, and its large airport serves as a major gateway to the offshore resort islands of Elbow Cay, Great Guana Cay, and Man-O-War Cay. Daily flights from Nassau and Florida provide convenient access to this region.

One of the newest additions to Marsh Harbour is the Great Abaco Hotel, a tasteful 20 room hotel with an impressive dining room, cocktail lounge, swimming pool and marina.

Captain Skeet LaChance, formerly the skipper of the *Highlander IV,* has a small dive operation at the Marsh Harbour Marina. His company is called Flying Diver Ltd. and is comprised of three dive boats, two air compressors and over 50 tanks.

LaChance runs half day dive trips right from the marina, offering one tank or two tank dives, depending on the guests' preference. He also does a big business in scuba tank rentals to yachts and sailboats that frequent the Marsh Harbour area.

LaChance provides dive services to hotel guests staying at a variety of Marsh Harbour hotels including: Great Abaco Beach Hotel, Lofty Fig, Conch Inn and Sandy Bay Cottages. It takes approximately 25 minutes by boat to reach most of the Marsh Harbour dive spots.

Diving in the Marsh Harbour area encompasses snorkeling, and shallow to medium depth reef exploration. **Guana Cay Reef** offers excellent medium depth coral reef diving with many inquisitive groupers. **Fowl Cay Reef** is great for both snorkeling and underwater photography. **Sandy Cay Reef** has spectacular elkhorn and brain coral formations. **Maxi Cave** is a coral ravine which ends in a large coral grotto at 25 feet. **Sandy Cay** is a magnificent coral garden at the south end of Pelican Cay National Preserve. The ***USS Adirondack*** is the wreck of a Civil War gunboat of the Union Navy. **The Towers** is a group of unique coral pinnacles which rises almost to the surface from a depth of 50 feet.

HOPE TOWN

The picturesque settlement of Hope Town is on the small offshore island of Elbow Cay and marked by a distinctive red and white, candy-striped lighthouse. Reminiscent of an early New England seaport, this quaint community provides a unique look at a different side of the Bahamas. Most Abaco islanders are direct descendents of British settlers and early American colonists.

It is a 30 minute water taxi ride to Hope Town from the Marsh Harbour ferry dock. Hotels in this area are mostly small and offer a friendly, informal atmosphere. The Abaco Inn is a ten room island resort, owned and operated by divers.

Dive services for the Hope Town area are provided by Dave Gale, owner and operator of Island Marine—a unique combination outboard repair shop, boat rental service and dive shop. Dave's trio of companies and his home are on his own private island, Parrot Cay. He caters to experienced divers who live or vacation in the Hope Town area.

CASUARINA POINT

Twenty miles south of Marsh Harbour is one of the most unique dive resort concepts to be found in the Bahamas. A group of seven beach front villas has been converted into a family style dive resort known as the Casuarina Point Club. These three bedroom houses were once the homes of executives working at the Owens-Illinois Sugar Plantation which has since closed down.

One of the homes has been converted into a complete dive shop, restaurant, cocktail lounge, boutique and recreation room. The other six homes are available for rent on a weekly or daily basis or as part of a complete dive package. Dive trips are conducted on a twice daily basis and the entire club operation is managed by Dan Wiltfang.

The coral reefs in this region are almost virgin and the marine life is abundant. **Top Tree Reef** is a lovely snorkeling area loaded with schooling fish and living corals. **Kerr Rocks** is a superb medium depth reef with many tame morays and friendly octopuses. **Cave Fish Cavern** is an inland blue hole which is inhabited by a rare species of blind cave fish.

NASSAU

The city of Nassau is on the island of New Providence in what is almost the geographic center of the Bahamas. More than 50 percent of this country's total population lives in and around this one city.

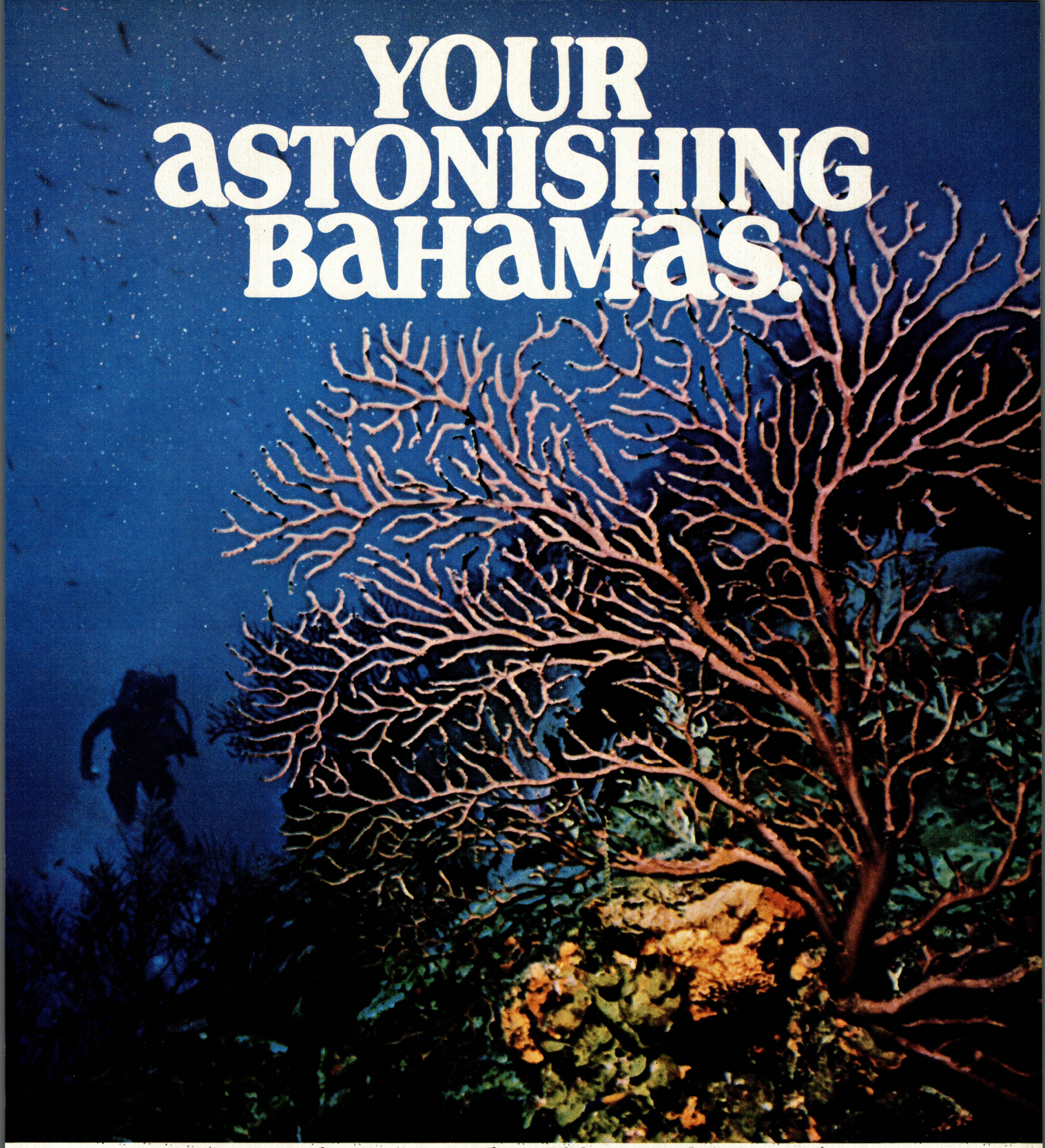
Nassau is also the major tourist attraction for the more than one million visitors it hosts annually. The city and surrounding countryside boast many luxury high rise hotels with white sand beaches and tropical gardens. There are two major gambling casinos, one-half dozen large marinas, several excellent golf courses, and numerous tennis courts. The charm of this fascinating city includes horse and buggy rides along 300 year old streets, a tour of the world famous straw market, and a tour of an 18th century fort built by the British.

Aside from the shallow reefs and sea gardens used by snorkeling tourists, Nassau has several excellent wall diving sites, a couple of good shipwrecks and a number of interesting coral caves and canyons. There are no less than four dive operators in this town, and each offers a good selection of dive sites for experienced divers.

SOUTH OCEAN BEACH DIVERS

The South Ocean Beach Hotel and Golf Club is one of the most marvelous all-sports resorts you will find anywhere in the Bahamas. This unique facility is on a sprawling 5000 acre estate in the Lyford Cay district of New Providence Island. It is on the opposite side of the island from Nassau, far from the crowded streets, honking horns and traffic jams of urban life. It's like being out in the country.

The South Ocean Beach Hotel is a country club style resort with 120 rooms, a fine dining room and a comfortable



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cocktail lounge. It is a two story building which blends in beautifully with the well landscaped surroundings. Service at this hotel is excellent and the hotel staff is very cordial.

For the outdoor sportsman, South Ocean Beach is ideal. There is an 18 hole PGA rated championship golf course, complete with club house and well kept greens. There is a total of four tennis courts of which two are lighted for night tennis. There is a large freshwater swimming pool next to the hotel, and golf carts are available for travel to the club house or beach. Horseback riding arrangements can be made with a simple phone call. Less than one mile away there is a lovely white sand beach for sunbathing, swimming, sunfish sailing or boardsailing.

Also right on the beach is a brand new building that is the home of South Ocean Beach Divers, Ltd. Owned and operated by Grover Moberly, this all service dive shop is equipped with a large air compressor, 54 aluminum scuba tanks and a large inventory of rental snorkeling equipment.

This operation also owns a 44 foot custom boat which will comfortably carry 20 divers. Dive trips are scheduled three times daily. The morning dive departs at 9:00 am and is usually a two tank dive. The afternoon trip departs at 1:00 pm and consists of a one tank dive with snorkeling afterward. Night dives depart at 7:00 pm for a one tank dive. The average running time from the beach to the dive sites is approximately 15 minutes.

South Ocean Beach Divers is fortunate to be at the end of the island closest to some of the finest drop-offs around Nassau. In addition to vertical wall diving there are excellent shallow reef sites with exceptional coral formations.

Clifton Wall is a beautiful drop-off beginning at 35 feet and has excellent purple tube sponge formations. **Tunnel Wall** is quite a different drop-off with giant crevices and many winding tunnels. **Rudy's Reef** is another fine drop-off with a coral garden along the top. **Goulding Cay** is perhaps the most impressive elkhorn coral forest you will find anywhere in the Bahamas.

SUN DIVERS

A snorkeling and scuba diving concession known as Sun Divers is at the Sheraton British Colonial Hotel, in downtown Nassau. Right on the beach of the hotel grounds, this dive operation offers resort scuba training, snorkeling trips, and basic scuba trips to nearby reefs. The concession is owned and operated by Lambert Albury, a Nassau born, PADI certified instructor who has been diving for 14 years.

Sun Divers conducts dive trips twice daily from the hotel beach, and most reef locations are only a few minutes away. **Cannon Reef** is a lovely 20 foot deep coral reef with lots of seafans and marine tropicals. It is marked by an old British cannon and is a popular snorkeling spot. **Green Cay Reef** is a 25 to 35 foot deep reef with beautiful elkhorn and staghorn coral formations. The ***Mahoney Wreck*** provides a fine opportunity to photograph Nassau groupers and green moray eels. Other sites include **Iron Bound Rock,** a medium depth reef with statuesque pillar coral formations. **Traveler's Rest** is a vertical drop-off dive which begins at 60 feet and is inhabited by several large groupers. **Deep *Mahoney*** is a section of the steel ship's stern which lies 40 yards away from the main wreck in slightly deeper water, and contains a greater abundance of fish life.

SMUGGLER'S REST

Smuggler's Rest Dive Resort is the ideal facility for the economy minded diver who is seeking inexpensive accommodations but desires first class diving facilities. This guest-house style facility is on a boat canal in the Coral Harbour area of New Providence Island. It is 35 minutes away from downtown Nassau and completely off the well-trodden tourist trail.

The hotel consists of seven separate bungalows with a main guest house right on the canal. Most of the bungalows have four beds, in two separate rooms, and one bath. The resort can accommodate a maximum of 26 guests at one time. Dining facilities are at the main house; breakfast is served on the porch and lunch is served on the dive boat. Dinners are not served at the resort but guests can obtain a fine meal across the street at the Coral Harbour Club.

Owned and operated by Ray and Lynn Post, this resort has two air compressors, 35 aluminum tanks and two dive boats. The largest of these is a 35 foot converted lobster boat that can carry 16 divers.

The dive sites are approximately 40 minutes away from the resort. Dive trips usually take a full day, with two dives and lunch aboard the boat. The two best drop-off sites are **The Slide** and **The Cliff.** The best reef dives are **The Grotto, Pumpkin Patch** and **Southwest Reef. The Ramp** is a 40 foot coral reef that is excellent for night dives.

DIVER'S HAVEN

On Bay Street, next door to the Pilot House Hotel, Diver's Haven is a full service pro dive shop with an impressive in-

Bahamian Fisheries Laws That Affect Diving

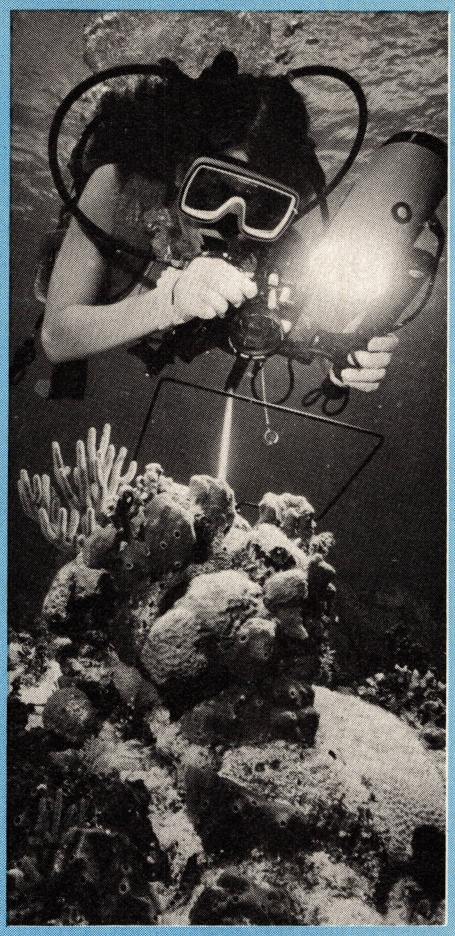
1. No marine product (conch, crawfish, scalefish, coral, etc.) may be taken with the use of underwater breathing apparatus (scuba, surface compressor, etc.).
2. A snorkel diver may only use an Hawaiian sling or pole spear. Any other powered speargun may not be used.
3. The export of any marine product is illegal unless a permit is issued (this prevents American boats from spearfishing or taking coral, then returning to the States with marine products).
4. Protected areas. No marine product may be taken from the north coast of New Providence from Goulding Cay in the west to a line drawn between the eastern tip of Atholl Island and the eastern end of New Providence, and inside of a line drawn through the fringing islands. No commercial fishing is allowed in the Exuma Cays Land and Sea Park. A daily quota of fish may be taken by each boat (see Bahamas National Trust By-Laws).
5. No toxic product may be used to kill or catch fish.

ventory of scuba equipment, snorkeling gear, and dive accessories. This shop specializes in diver training programs and has a classroom and training pool behind the store. Resort scuba classes and full certification courses are conducted on a weekly basis. Advanced classes and instructor training are also available.

Diver's Haven is operated by Frances and Gardner Young, both Bahamian citizens. Frances is a former airline stewardess and water ballet performer. This charming and energetic lady is a PADI master instructor, a licensed Bahamian skipper and a qualified regulator repair technician. Gardner is one of the oldest and best known dive operators in the Bahamas, operating under the name Underwater Tours Ltd.

The dive boat is conveniently located at a pier directly across from the store. Frances operates daily scuba and snorkeling trips to nearby reefs, and special advanced diver trips on Saturdays. Arrangements for night dives can be made by calling the store in advance.

Diver's Haven offers a selection of top quality dive locations around New Providence Island. **Lyford Cay Wall** starts at 60 feet and plummets to over 2000. The wall is loaded with black coral, tube sponges and many large pelagic fish. **Tunnel Wall** is an especially exciting drop-off located near Goulding Cay. Beginning at 35 feet, this impressive formation is deeply etched with coral canyons, crevices and undercuts. **Paradise Island Caves** is a medium depth reef with pillar coral, a vertical ledge and several interesting coral caves loaded with schooling fish. ***Mahoney Wreck*** is a 200 foot long steel ship which lies in 30 feet of water and has been dynamited by salvors. The jumbled mass of steel plates and coral encrusted machinery resembles an undersea junkyard.



One of the specialty services offered by Diver's Haven is custom dive boat charters for private groups. Gardner has a fast dive boat with an extended cruising range which allows him to make one day excursions to reefs as far as 60 miles away. **Lost Ocean Hole** is a fabulous ocean blue hole 75 feet in diameter. It reaches a central depth of 190 feet. This extraordinary bell-shaped formation is frequently filled with large schools of fish, nurse sharks and many types of pelagics. **Ocean Rock** is a spectacular vertical drop-off located at the very top of the Exumas. This spot is well known for its big fish, formations of eagle rays and breathtaking visibility. **Love Beach Wall** is another vertical drop-off similar to Lyford Cay, but starting at a shallower depth. The wall is loaded with black coral, sponges and gorgonians. The **LCT Wreck** is a sunken WW II landing barge which lies in 20 feet of water. It is excellent for macro photography.

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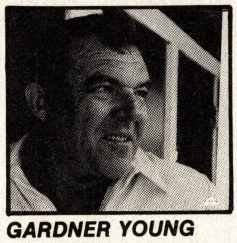
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Bahamas

RIDING ROCK INN

The Riding Rock Inn Resort is on San Salvador, a small island in the southeastern section of the Bahamas. It is farther out in the open Atlantic than any other island in the Bahamas chain, and thus provides a fascinating glimpse of many unusual marine creatures. It has a resident population of 850 people, two small settlements, a few private vacation homes, a paved airport and one hotel.

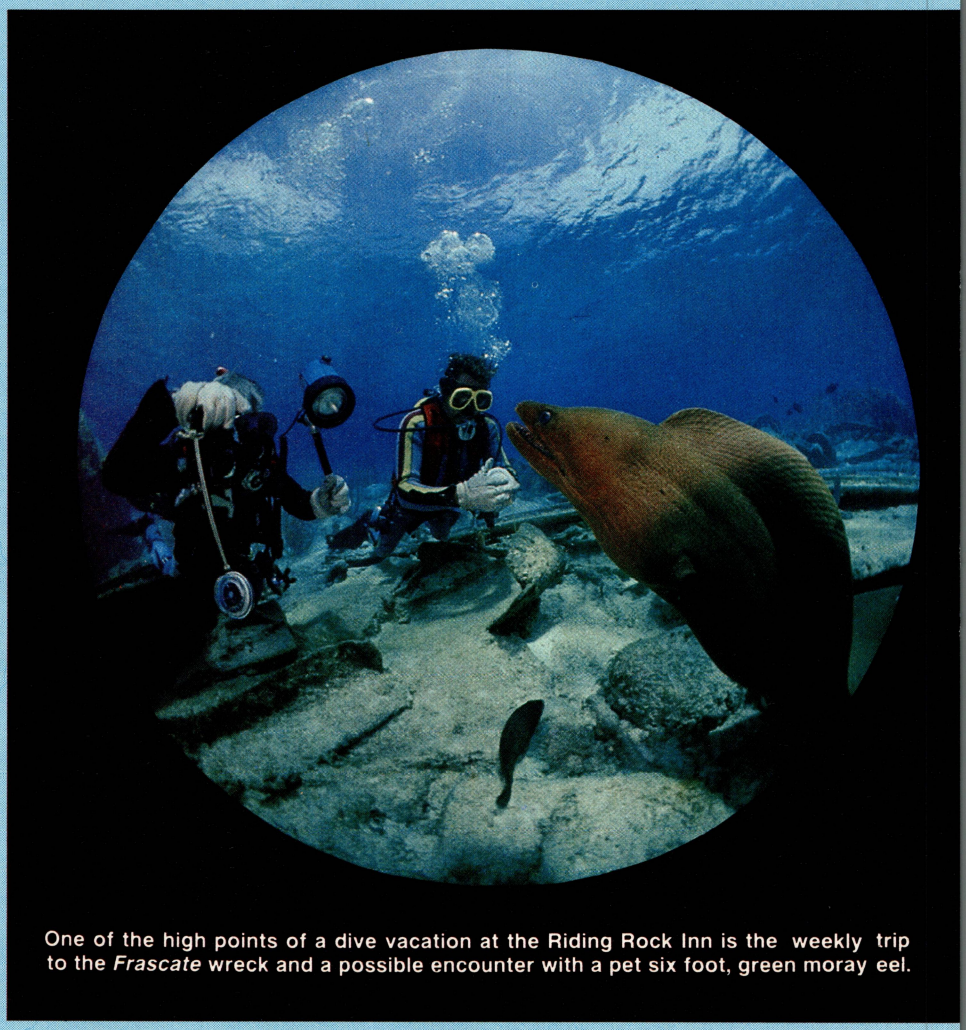
The Riding Rock Inn is purely a dive resort hotel. The management specializes in dive activities six days a week; catering to dive groups, diving families, couples and individuals. Up to 80 divers can be accommodated per day. It is very compact, consisting of 20 hotel rooms, six ocean front villas, several resort condos, a restaurant, swimming pool, cocktail lounge, tennis court and marina. All are within walking distance of each other, and the airport is less than 500 yards away.

This resort's dive facility is considered to be one of the largest and best designed in all the Bahamas. The dive shop is right at the marina dock and contains four air compressors, 250 tanks and assorted dive accessories. A fleet of four large Flattop dive boats is berthed directly in front of the shop. Next door is a complete underwater photo center with classroom, color film processing and camera rental department. Classes in underwater photography are conducted weekly and film is processed overnight.

There are some 35 different dive sites within 5 to 25 minutes of the Riding Rock marina. A beautiful drop-off runs parallel to the shoreline for almost eight miles and provides an unlimited selection of excellent wall dives. In addition, there are several shipwrecks, coral caves and grottos, sea gardens and shallow reefs. **Telephone Pole** is a popular wall dive. Beginning in 45 feet of water, it features a magnificent coral canyon that cuts through the top of the reef at a 45 degree angle. **Grouper Gully** is another splendid wall inhabited by a number of extremely tame groupers who love to be fed. The ***Frascate Wreck*** is the remains of a 261 foot steel freighter which sank in 1902 and now lies in 25 feet of water. **Snapshot Reef** is a shallow coral patch popular among underwater photographers. It is loaded with all types of marine life. **Doolittle's Grotto** is a breathtaking system of massive coral heads, deep ravines and long coral tunnels.

In recent months, the divemasters have announced the discovery of several new spots which will prove particularly fascinating for divers who are returning for their second, third or fourth visits. **Sand Castles** is a stunning vertical wall where pure white sand comes right to the lip of the drop-off before cascading over the edge. Visibility is crystal clear and this drop-off is loaded with all types of coral and macro creatures. A real surprise is the discovery of **Cockburn Town Pier** as a lively spot for night dives. This spot can be dived right from the beach and visitors are likely to encounter many bizarre night creatures such as octopus, rock lobsters and stingrays. Another recent find is **Cable Crossing,** a tightly packed coral ridge and drop-off in the vicinity of the island's communication cable. This spot is loaded with all types of marine life. Also, the divemasters have recently discovered a vast underwater cave complex in the center of **Gardner's Reef.** As yet, the location has not been named.

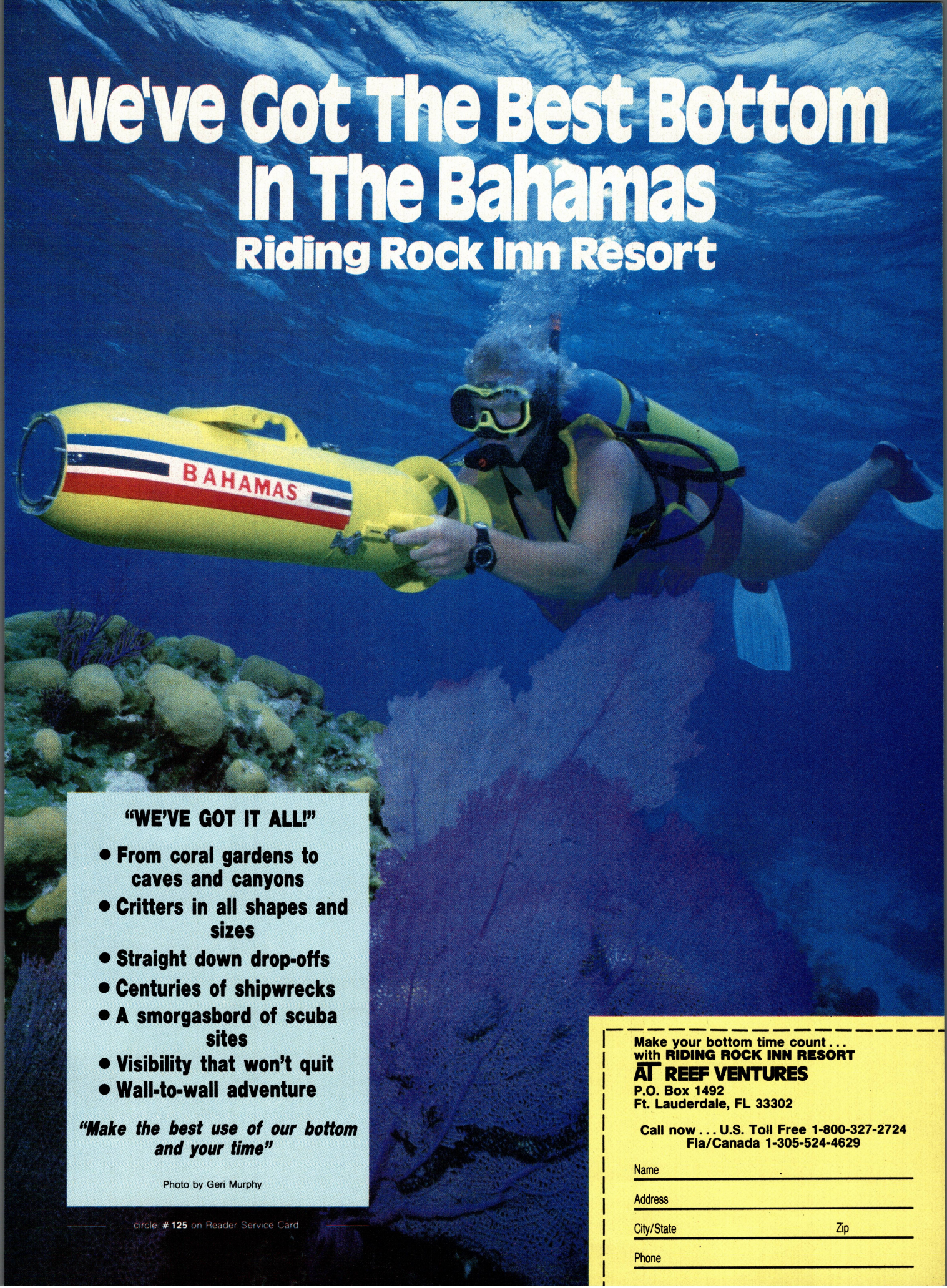




One of the high points of a dive vacation at the Riding Rock Inn is the weekly trip to the *Frascate* wreck and a possible encounter with a pet six foot, green moray eel.

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Bahamas

RUM CAY

Rum Cay is one of the smaller islands of the Bahamas, a mere speck of land five miles wide and twelve miles long. It lies in the southeastern part of the Bahamian archipelago, 375 miles from Ft. Lauderdale. The flight from Ft. Lauderdale takes approximately three hours (special charter flights), including a short stopover in Rock Sound to clear Bahamian Customs and Immigration.

With a total population of only 70, Rum Cay is virtually unknown to travel agents. Last year, the Rum Cay Diving Club opened its doors for business, making it the newest and smallest dive resort in the Bahamas. With a total of seven rooms, this resort can comfortably handle 14 divers on a weekly basis.

Despite its small size, the Rum Cay Diving Club has all of the most modern facilities, including a kitchen, two air compressors, 100 scuba tanks, a photo darkroom, two dive boats and a hot tub.

The club grounds are neatly kept and the buildings have that freshly-painted look. Each bungalow unit is equipped with futuristic solar panels on the roof for natural water heating. The rooms are nicely decorated, equipped with modern showers and toilet facilities and have ceiling fans. Wooden duckboard walkways connect all of the bungalows with the dining room and the patio deck overlooking the beach.

The main building houses a comfortable informal dining area and a huge ultra-modern kitchen. The meals at the club are impressive and you can count on gaining a few extra pounds.

One of the most spectacular dives at Rum Cay is a site called **The Chimney.** It is less than one-half mile from the resort and can be reached by boat in five minutes. The top of this drop-off begins at 50 feet. There is a hole in the top of the reef approximately eight feet long and four feet wide. Upon entering it a diver can descend a vertical tunnel or chimney to 90 feet. The bottom of the chimney opens into a large coral grotto with a white sand floor. Emerging from the coral grotto, one can follow a sandy ravine that eventually spills out onto the vertical drop-off at 130 feet. The sight is spectacular and there is a wide variety of giant sponges and gorgonian fans suitable for underwater photography.

Another excellent drop-off less than one-half mile from The Chimney is a spot called **Dynamite Wall.** Here the top of the wall begins at a depth of 80 feet and is covered with a thick bed of staghorn coral. There are dozens of tunnels and narrow canyons etched into the face of the wall. This spot is best known for the abundance of black coral trees which grow along its face at depths from 120 to 140 feet.

An entertaining medium-depth dive is a spot known as **Majestic Reef.** Diving depths range from 35 to 50 feet, with massive coral ridges and high coral heads rising up from a sandy bottom. A tame 30 pound Nassau grouper can be fed by hand and will follow divers around the reef. One of the most beautiful coral reef dives at Rum Cay is a spot called **Snow Fields,** 100 yards off the west side of the island. It is a 45 minute boat ride, but the beauty of this remarkable reef is worth the extra time. The average depth is 30 feet. The terrain is a fairly flat bottom covered with an almost snow-white powdery sand. Rising from the bottom are hundreds of small coral heads five to eight feet tall. These are covered with a dense foliage of seafans, seawhips, seaplumes and sponges. It looks like a winter scene high in the Rocky Mountains.



The large, friendly Rum Cay groupers love to be petted and stroked by divers.

SMALL HOPE BAY

By far the largest island in the Bahamas, Andros is an immense untamed wilderness with miles of undeveloped coastline and a virtually wild jungle interior. Running parallel to the eastern shoreline of this huge island is a 142 mile long barrier reef—the second largest in the world. It lies about one mile offshore and the outside edge is bordered by a spectacular drop-off. Beginning at 70 feet, this vertical cliff plummets straight down to 6000 feet.

Located just two miles north of Andros Town is one of the oldest and best known dive resort hotels in the Bahamas, Small Hope Bay Lodge. This cozy little beach resort has been catering to dive enthusiasts for over 20 years. It is the spot where wall diving actually began.

The lodge is owned and operated by Dick and Rosie Birch, well-known personalities in the international dive community. Dick is a veteran diver of almost 30 years and one of the original NAUI instructors. Rosie is an extremely talented and industrious lady who has developed a unique company called Androsia, specializing in hand-dyed fabrics of original designs, as well as an entire line of beach wear. She has established a factory at Andros Town which currently employs over 25 Bahamian technicians skilled in the art of batik.

Nestled under a stand of casuarina pines, the dive resort consists of a main lodge and 20 private cabins. The lodge contains a large living room, a shipwreck bar, a fireplace, a dining room and a game room. There is a beach which borders the lagoon and a pier for the dive boats. Small Hope Bay Lodge has many unique features such as water beds in several of the cabins and a large California hot tub for therapeutic soaking after a long day.

While the drop-off is the main dive attraction at Small Hope Bay, there are many other underwater attractions which offer a wide variety of dive experiences. **Love Hill** is a marvelous coral garden in ten feet of water which provides superb



snorkeling. **The Barge** is the wreck of a sunken WW II Navy landing craft which sits upright in 70 feet of water and is inhabited by a large number of friendly groupers, yellowtails and moray eels. **The Wall** is perhaps the most popular drop-off dive, beginning at 70 feet and offering visibility over 200 feet. **Turnbull's Gut** is a deep coral canyon which opens onto a vertical drop-off filled with a dazzling array of sponges, corals and soft gorgonians.

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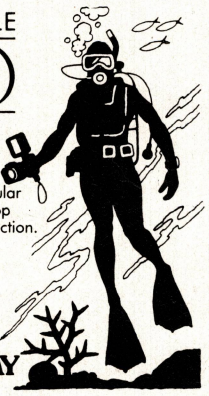
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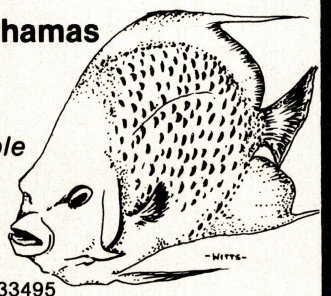
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Bahamas

STELLA MARIS

Close to the northern tip of Long Island there is a large resort hotel complex and land development company. This operation has grown so big that the area has actually been named after the hotel and it now has its own local post office. The resort complex consists of a dozen or more buildings set on the side of a hill overlooking the Atlantic. There is a main building with a dining room and cocktail lounge, three or four buildings containing hotel rooms, several cottage bungalows, three swimming pools, tennis courts, a private beach, a large marina and boat repair facility, and a group of marina apartments. The entire operation is owned and managed by three Germans—Jorg, Peter and Gerd.

This resort also has a large dive shop operation at the marina. There are four air compressors, 120 tanks, four dive boats



and a large dive truck for beach entries. The hotel conducts boat dive excursions twice daily, plus additional beach dives and night dives on request.

There are more than 35 charted dive sites around Stella Maris. Perhaps the most unique is **Shark Reef** where guests have a rare opportunity to observe the divemaster feeding a group of six or more friendly sharks in 50 feet of water. This particular dive is entirely safe and has produced many extraordinary photographs. **Barracuda Heads** is a high profile coral formation inhabited by several tame groupers and a large barracuda. **Poseidon Point** is a superb beach dive which includes a large forest of elkhorn and two separate beds of staghorn corals. **North Wall** is a deep drop-off with large purple tube sponges and lots of big fish.

Extended all day boat trips to Rum Cay and Conception Island provide an additional list of exciting dives. **Conception Wall** is a vertical drop-off which begins at 50 feet and is considered one of the most beautiful wall dives in the Bahamas.

TREASURE CAY

Approximately eight miles south of Green Turtle Cay is a large resort hotel complex known as the Treasure Cay Beach Hotel and Villas. Treasure Cay is not actually a separate island but instead





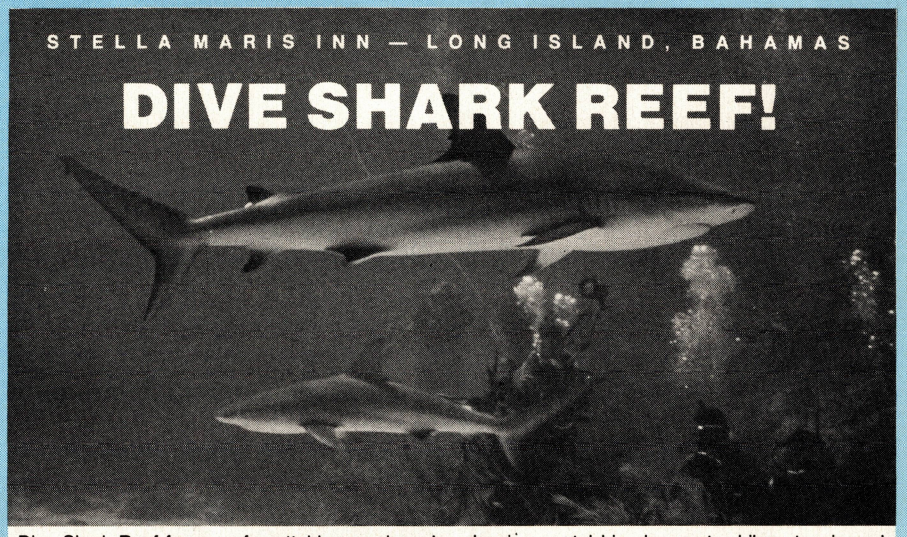
a gracefully curved peninsula connected to Great Abaco by a narrow isthmus.

Practically the entire three and one-half mile long peninsula has been developed into a fabulous country club style resort. An 18 hole championship golf course takes up one-third of the cay. There are ten tennis courts, a giant marina, six different beaches, a hotel complex, two restaurants, town houses, marina apartments, ocean villas, golf course villas, shops and private vacation homes.

The Treasure Cay Diving Center provides snorkeling and scuba instruction for hotel guests and offers twice daily trips to nearby reefs. One of the best snorkeling spots is **Guana Gardens,** a sprawling coral garden covering 50 acres of ocean floor. The **Civil War Wreck** is the fascinating remains of a century old paddle-wheel blockade runner. **No Name Wall** is a mini drop-off, from the surface to 50 feet. **Grouper Canyons** is a series of long coral ridges and narrow surge channels inhabited by big groupers, horse-eye jacks and amberjacks.



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Bahamas

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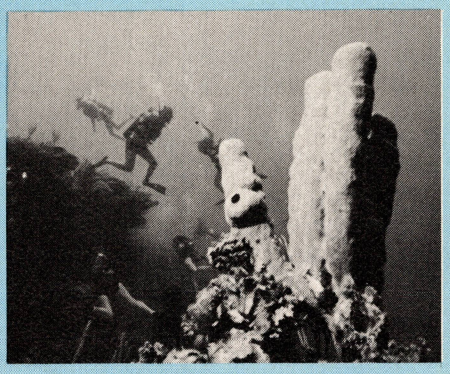
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Walker's Cay is the northernmost island in all the Bahamas. It is a compact, self-sufficient resort which occupies the entire 100 acre island. There is just enough room for a hotel complex, private airstrip, tennis court, 75 slip marina and a dive shop facility.

For years Walker's Cay has enjoyed a fine reputation as one of the best game



fishing resorts in the northern Bahamas. It is a prime location for marlin, tuna, sailfish and wahoo.

This resort has a well-stocked dive shop right at the marina. An inventory of 42 rental tanks and a large volume air compressor provide sufficient equipment for accommodating small groups and individuals.

There is good snorkeling available on the shallow coral reefs and excellent photographic opportunities on the medium depth reefs. **Queen's Reef** is a broad



coral formation covering 50 acres of ocean bottom with depths to 60 feet. **Jeanette's Reef** is a series of coral ridges and sand gulleys to 45 feet. The ridges are honeycombed with tunnels and crevices. **Walker's Reef** offers the adventure of exploring a giant coral cavern. Holes in the ceiling let sunlight stream in and illuminate the interior.

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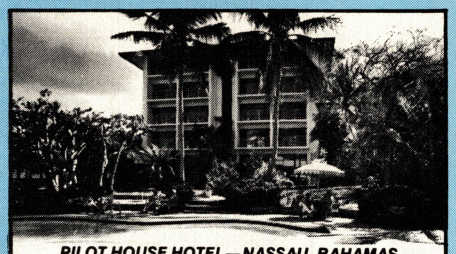
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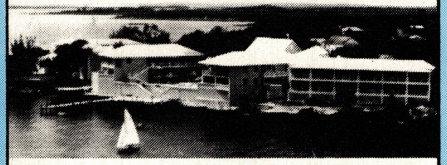
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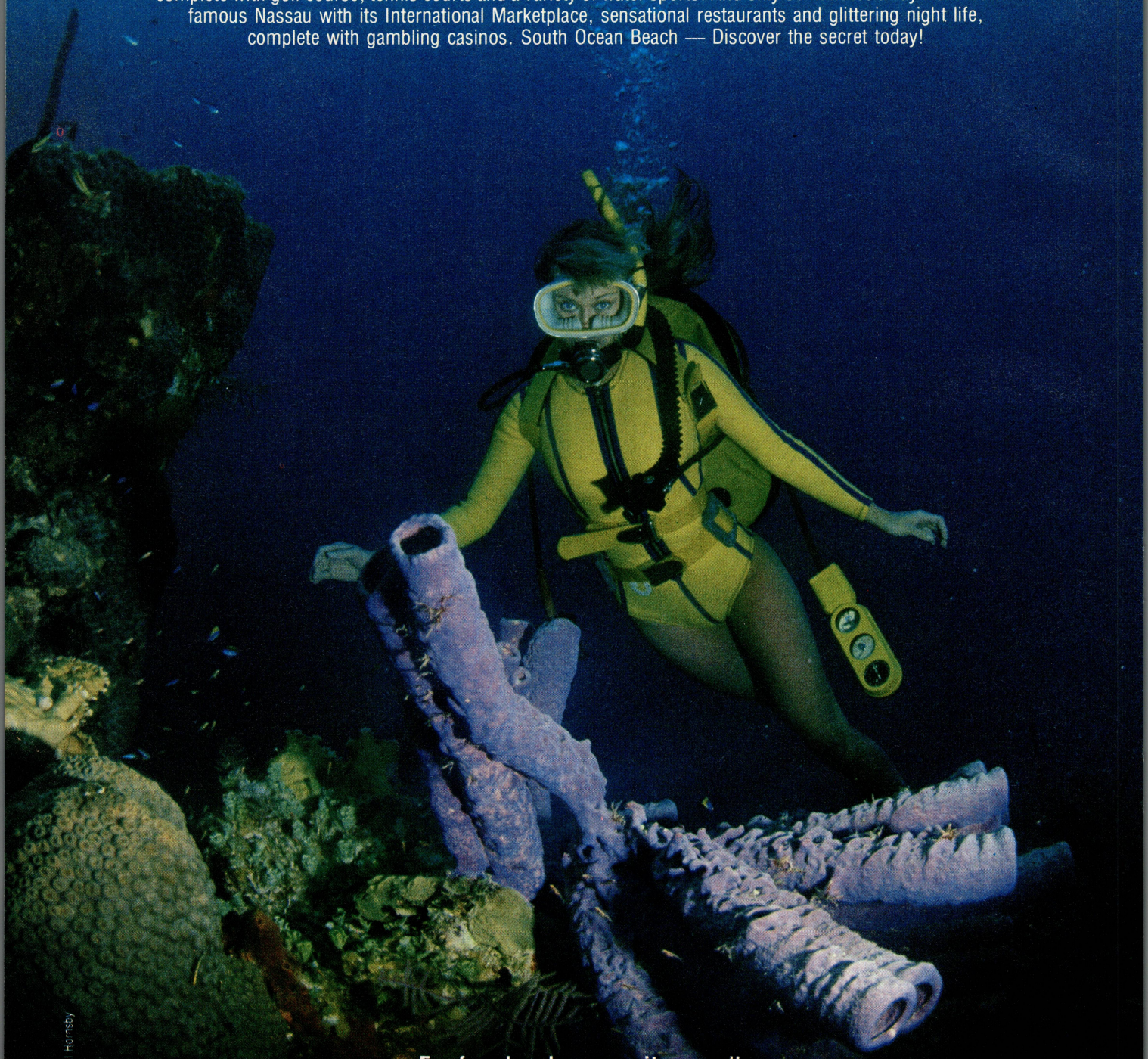


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kling Stream's salvage was made particularly difficult since she sank at her mooring, out of reach of any land-based crane, and because she was buried in mud and silt up to her deck.

For more information, contact J.W. Automarine, One North Broadway, White Plains, NY 10601 or 5156 Pacifica Drive, San Diego, CA 92109.

COMMERCIAL DIVING IN AUSTRALIA

Three major groups have announced plans to spend a total of $134.1 million for exploratory projects in three new Australian offshore areas. Esso, Marathon and a third group led by Seahawk, Australia, are drawing up ambitious projects for the Western Coast, predicted to be the target for a record number of wells.

"According to reports from the field, conservative estimates indicate that the number of divers needed in these two areas over the next few years will reach 350," said Jim Joiner, executive director of the Commercial Diving Center. "When considering that there are approximately 120 to 130 divers working in Australia now, we are facing a 200 percent growth factor. Since no work permits are being given to divers of other countries, those who hold Commonwealth Citizenship and have the necessary diver training and experience will be in an excellent position to take advantage of this opportunity for employment."

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EKTACHROME 200

(Continued from Page 25)

to-subject distance and in setting the focus control will be less noticeable.

As a rough estimate, each time you close the aperture by one stop, depth of field increases by about 50 percent. And, each time you close by two stops, it doubles approximately.

In dark conditions, of course, Ektachrome 200 allows you to take sunlight pictures that could be impossible with slower color slide films. This is important for your natural light shots inside wrecks, caves, tunnels, under kelp, or if your strobe breaks down on a cloudy day.

Using smaller apertures provides another benefit in addition to increased depth of field. Most camera lenses seem to produce the sharpest images when set for the middle range of f-stops. (Please note that we are referring to center-to-corner sharpness at the focused distance, and not differences in depth of field.) In other words, f8 usually focuses a sharper image on film than f4.

After studying hundreds of student pictures taken with Seacor 21 mm lenses, and with the Subawider and Novatek wide-angle adapters for the Nikonos 35 mm lens, we've seen that pictures taken at the smaller apertures (higher-numbered stops) are invariably the sharpest. Therefore, if you use these lenses we recommend Ektachrome 200 over ASA 64 color slide films. With the Nikonos 15 mm lenses, however, we haven't detected any significant loss of sharpness at the wider apertures.

DISADVANTAGES

The higher ASA film speed that gives us the choice of faster shutter speeds and/or smaller apertures has its disadvantages: Although improvements are constantly being made, the higher the ASA the greater the grain. Today's ASA 200, for example, isn't as grainy as the older ASA 160 High Speed Ektachrome. Grain refers to the small particles of silver and other materials that make up the film emulsion. The larger the clumps of grain that make up the image on film, the more visible the grain will be. Picture sharpness is also related to graininess: The larger the grain, the lesser the sharpness of the image.

Because Ektachrome 200 has more grain and less sharpness than ASA 64 or 25 slide films, it isn't recommended for close-up photography. Generally, fine grain and maximum picture sharpness are most important in close-ups where fine details are prominent. With larger subjects at longer distances fine details aren't as important, so Ektachrome 200 is much more acceptable.

Graininess is generally more noticeable if you have color prints made from your slides, and often isn't noticeable during projection. Generally, the grain shows up more often in the blue midwater backgrounds. These backgrounds can also appear grainier than they actually are because particles suspended in the water may appear to be grain.

The colors produced by Ektachrome 200 are slightly warmer than Ektachrome 64. Being warmer, (slightly redder) it produces good skin tones, and red BC's will be bright, etc. But the blue midwater



backgrounds will not be as snappy and intense as they would be with Ektachrome 64.

Also, the colors produced by Ektachrome 200 are not as saturated (vivid) as those produced by slower ASA's. Since close-ups often depend on dynamic color, their impact would be reduced by using ASA 200 film. But at distances of about three apparent feet or more, depth of field, action and composition are often more important than color.

The last disadvantage is really the fault of the photographer. If you are accustomed to using an ASA 64 film, you will tend to overexpose Ektachrome 200 because you will find it hard to believe that the aperture should be so small.

OUR RECOMMENDATIONS

We routinely recommend Ektachrome 200 for beginning underwater photographers who will be taking U/W pictures at distances of about three apparent feet or more. This is because we believe that they need depth of field more than reduced grain or increased sharpness. Later, after they master the mechanics of estimating distances and focusing, we shift our recommendation to Ektachrome or Kodachrome 64. We also recommend Ektachrome 200 for photography in low light conditions, when high shutter speeds are required, and for situations when depth of field is needed to include both near and far subject areas.

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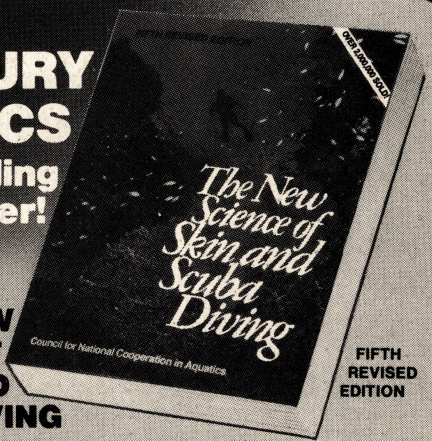
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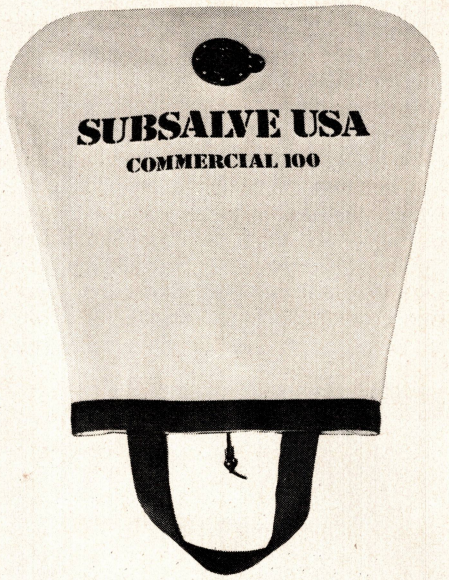
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Subsalve Lift Bag

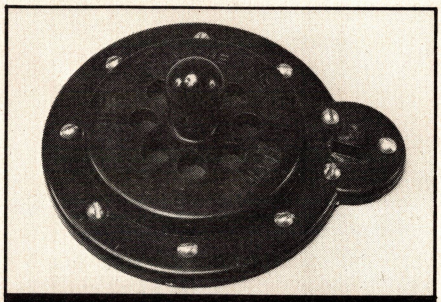
A Handy Salvage Tool For Sport Divers

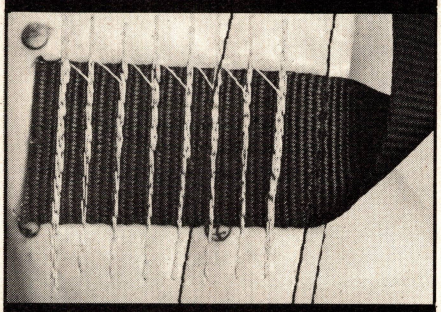
BY GERI MURPHY

Have you ever experienced the frustration of finding a valuable object on the bottom and not being able to bring it up? There you are, staring at an almost new anchor, worth hundreds of dollars, and there is no way to bring it to the surface. You know that if you leave you'll probably never find your prize again. And, it is heart breaking to abandon this treasure.

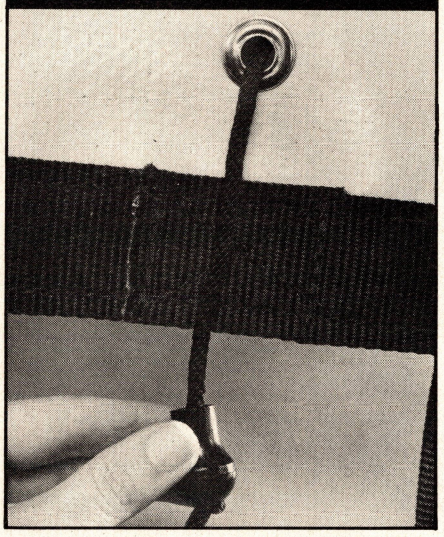
Take heart, fellow diver. Subsalve has designed a professional lift bag which is strong enough for commercial salvage jobs, but compact enough for sport diver use. It's called the Commercial 100, and is capable of lifting anchors, outboards, moorings, large portholes, ship's wheels, bronze propellers, and other heavy objects.

The people at Subsalve Industries are experts at developing lift bags. The company's primary business is designing and manufacturing giant bags that lift 1000, 6000 and 12,000 pound items. There is even one bag that will lift 20,000 pounds! This same technology and material has now been utilized for the development of small, portable bags sport divers can use.





The Subsalve Commercial 100 lift bag is strong enough for professional use but compact enough for sport divers. It weighs only five pounds and will lift 138 pounds. Two inch wide nylon lift straps are sewn into the walls of the bag and a special dump valve (lanyard operated) vents excess air.



DESIGN

The Commercial 100 weighs only five pounds and can be packed in a gear bag. Yet it is built for rugged use. Fully inflated, it will lift 138 pounds of deadweight. The bag is wide at the top and narrow at the bottom to ensure stability during inflation and ascent. It will not tip, wobble or slew to one side. The bottom of the bag is open, thus allowing self-venting as it ascends. The opening has a fairly narrow neck to prevent over-dumping or tipping.

There is specially designed Plunger Dump Valve at the top of the bag for precise control of buoyancy and rate of ascent. With this valve the diver can continually vent off excess air and slowly ride the bag and object to the surface at 60 feet per minute. A diver could even stop

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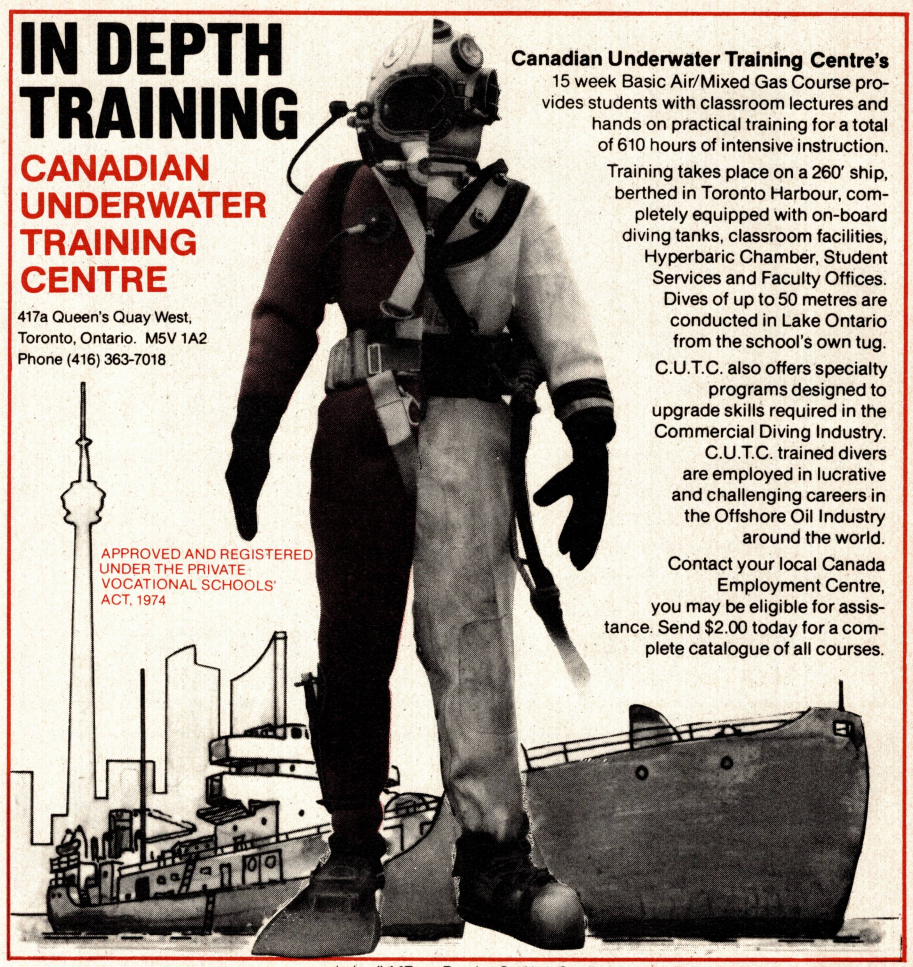
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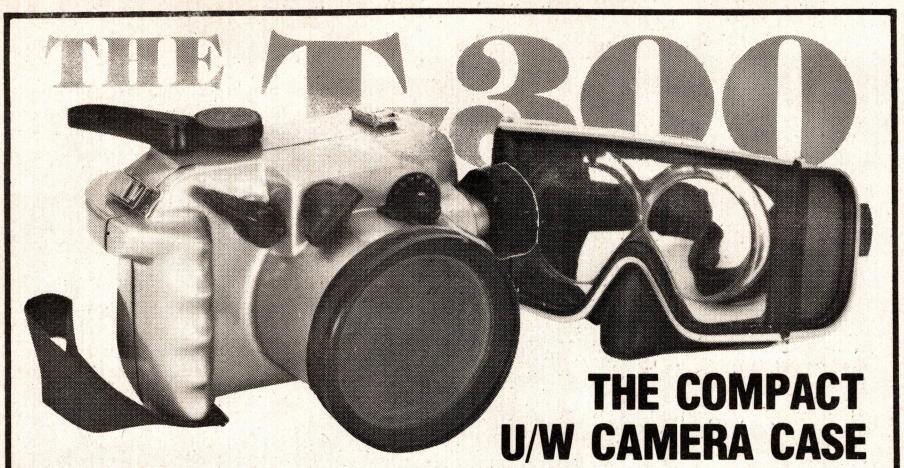


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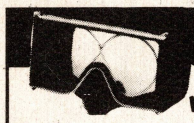
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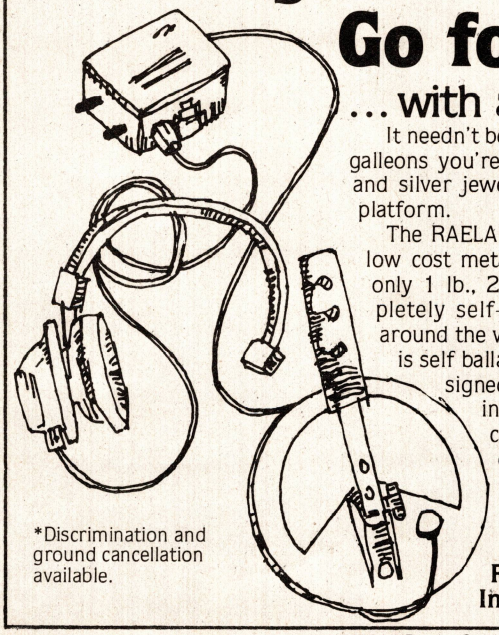
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LIFT BAG

at 10 feet and decompress. A handy lanyard runs from the dump valve at the top of the bag to the lifting harness at the bottom. The diver can control the dump valve easily while holding the salvage object steady.

A pair of heavy-duty two inch wide nylon lift straps are sewn into the walls of the bag and provide an easy way to attach it to objects. Rope, chain or cable can be easily tied to the strap loops.

CONSTRUCTION

Subsalve lift bags are made from an extremely tough woven DuPont synthetic material called Kevlar. It is four times stronge than steel and very lightweight. It has a tensil strength of 750 pounds per inch. The Kevlar is .05 inch thick and bright yellow for high visibility. It is vinyl coated and resistant to abrasion, puncture, rot or chemicals in the water.

The Plunger Dump Valve is made of high impact plastic with a sure-fitting seal. It is impervious to saltwater corrosion. The nylon lift straps are both glued and stiched to the inside of the lift bag.

CONCLUSION

The Commercial 100 retails for $60, a reasonable price for such a high quality lift bag. Subsalve also produces two larger models in the same design; the Commercial 200 lifts 234 pounds and the Commercial 500 lifts 540 pounds.

For more information, prices and a catalog, write to: Subsalve Industries, P.O. Box 9287, Providence, Rhode Island 02940.



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Dive enthusiasts are bumping into more watch ads than ever before. Most of those advertised are fine watches. But none compare to the CASIO Deep Water chronograph. Now you can own the stylishly rugged all stainless steel case and band CASIO **DW280** for only **$69.95.** The CASIO **DW280C** with all stainless case and black polysulfone band is also available for only **$59.95.**



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Here's the newest version of the gifted marine timepiece that's launched a generation of imitations. Constructed of featherweight black polysulfone, this quartz beauty offers you all the functions of CASIO's Deep Water chronograph. It's water-tight to over 330 feet and is available now at a low, low price. Order model **W300** for only **$34.95.**

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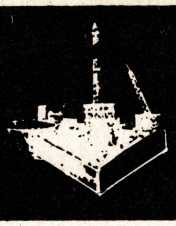
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ARMADA RELICS FREEZE-DRIED

Spanish Armada treasures which lay beneath the Atlantic for almost 400 years have now found a permanent home in Ulster, thanks to conservation techniques developed in the province over the past decade.

The Ulster Museum has purchased more than 300 items recovered from the wreck of *La Trinidad Valencera,* a troopship of the ill-fated Armada, which foundered off the coast of Inishowen, County Donegal in 1588. Many of the items in the magnificent archaeological collection are unique.

Members of the Sub-Aqua Club in Londonderry, under the guidance of Colin Martin of St. Andrews University, Scotland, have spent the past 11 years recovering the treasures from approximately 30 feet of water in Inishowen's Kinnagoe Bay. The collection includes two anchors, hand weapons such as pikes and spikes, ammunition, wooden and pewter dishes, jugs, bowls, goblets, pottery vessels, clothing, armor, sandals, garment fragments and provisions.

In the months and years ahead there will be immense concentration on conservation work on *La Trinidad* material—work carried out by a team of specialists in the conservation laboratory run jointly by the Ulster Museum and Queen's University, Belfast.

Keeper of Antiquities at the Museum, Laurence Flanagan said, "Expertise in preserving material brought from beneath the sea after 400 years is not highly developed anywhere, and we are doing much pioneering work. There is a great deal of wooden material among the finds and our laboratory is foremost in developing low-cost freeze-drying conservation techniques."

Flanagan expressed the hope that by the time the 400th anniversary of the Armada comes around in 1988 a major international exhibition will be organized in Belfast featuring the two collections.

FIT OPTION

The School of Applied Technology at Florida Institute of Technology, Jensen Beach has a new option for its associate of science degree in marine technology. It is now possible to specialize in a sport diving option. In addition to the academics required to receive an associate of science degree, emphasis will be placed on specialized training leading, after two years, to an instructor training course.

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Interested persons should contact the admissions office or the diving department for details—Florida Institute of Technology, 1707 N.E. Indian River Drive, Jensen Beach, FL 33457.

BROWN FUND

The Charles V. Brown Memorial Diving Fund advisory committee met in April in Avalon, Catalina. Several goals were accomplished. A rough draft of a publication dealing with innovative and pleasurable ways to learn dive skills in confined waters was completed. Proceeds from the sale of this publication will become the property of the Brown Memorial Fund. A report was given by Jeanne Bear Sleeper on her progress in compiling a collection of Charlie's published material. Dr. Brown's essays and articles will be edited and reviewed by knowledgeable physicians. Sleeper will assemble and index them. Any monies gained from this work will also be contributed to the Brown Fund.

The Charles V. Brown Memorial Diving Fund is also seeking a parent non-profit agency. This agency should be diving related and willing to assist in disbursing gifts and grants. Anyone who has knowledge of an appropriate agency should contact the committee as soon as possible. Anyone with ideas as to the best way these monies could be used to serve the diving community should send such ideas to the committee. The advisory committee is also in need of legal advice regarding the possibility of setting up its own non-profit status. Anyone who possesses such expertise and would be willing to offer advice, please contact the committee. If anyone would like to become an active member of the advisory committee, please forward a letter addressed to the chairman.

The next meeting of the advisory committee is scheduled for Sept. 25 and 26. At that time, the committee's discussions will include innovations in open water scuba training with a goal of publishing a second booklet on that topic.

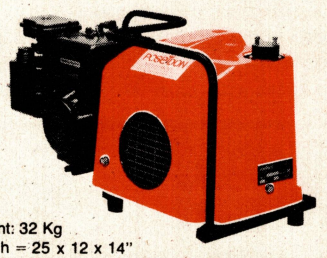
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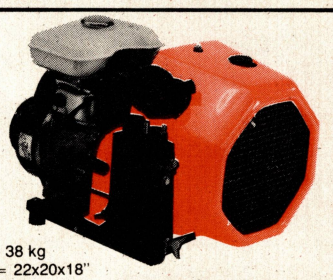
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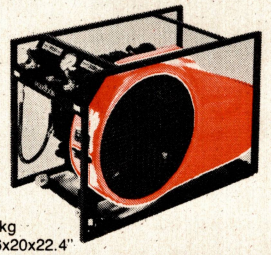
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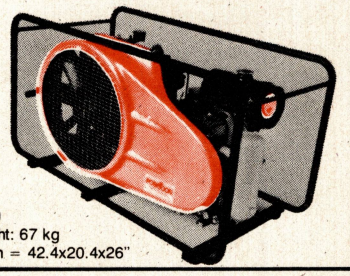
UNI
weight: 32 Kg
lxwxh = 25 x 12 x 14"



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weight: 38 kg
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Dive Travel™

By Amy Brown

BAHAMAS WALKER'S CAY

Supreme accessibility and accompanying low transportation costs -- plus interesting and varied diving -- have made the Bahamas popular among divers. The "tops in the Bahamas," literally and figuratively, is Walker's Cay -- a perfect get-away -- an emerald isle set in the cobalt sea at the northernmost edge of the Bahamas Bank.

OceanQuest has selected Walker's Cay as its prime location in the Bahamas, because it offers a mix of superb diving, accommodations and a well-equipped dive operation. Originally famed as an angler's paradise -- and site of 18 International gamefish records -- Walker's Cay is managed by the experienced and capable David O'Shaughnessy. The 100-acre island is a self-contained resort, complete with its own marina, efficient customs service, airline, and gracious hotel set high atop a hill overlooking the sea and lush tropical foliage. Sixty-two spacious rooms each feature a terrace, and several suites and villas are also available. The hotel's diningroom is justly famous for its delectable menu of fresh-caught seafood, cooked in every style imaginable, plus gourmet specialties such as fried troutling.

The modern dive operation, directed by Cheryl Kirz, provides speedy entree to world-renowned coral formations and underwater coral caverns. Healthy and impressive reefs parallel the northern edge of the bank. Large coral heads, which loom enormous when viewed from below, rise 40 feet in height and up to 100 feet wide, riddled with caves, undercuts, potholes and chutes. Several dive sites close to the resort form a kind of underwater Grand Canyon, and gigantic caverns permit the diver to penetrate the very heart of a reef.

Large numbers of grouper and schools of grunts, porkfish and snapper add uniqueness to Walker's Cay, and are impressive as they undulate about the reef floor in total synchrony. With so much blue water nearby, amberjack, mackeral and kingfish are also common, and schools of dolphin are frequently sighted.

Walker's Cay provides a protected haven for diving, sheltering sites from prevailing winds. Visibility varies with the weather conditions, but averages 80 feet, with 100 feet not unusual.

This small, peaceful and friendly refuge is just now being discovered by divers. Its pleasures truly compare with those of the world's best diving resorts.

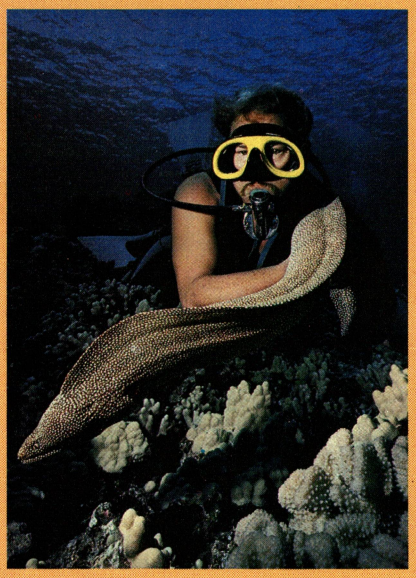
Delta Airlines provides frequent service to Fort Lauderdale from many major cities. Connecting service to Walker's Cay is available daily on Walker's Cay Airline. For land and airline reservations contact OceanQuest, Inc., 139 Woodlawn Avenue, Upper Montclair, New Jersey 07043 or call toll free 800/526-1394 or 201/744-5254.

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SDM travel SECTION

DIVE HAWAII
with Central Pacific Divers

By Jim and Cathy Church





photos/Eric Le Feuvre





photos/Jim and Cathy Church

Central Pacific Divers is on Front Street in Lahaina, on the valley island of Maui, 70 miles southeast of Oahu. The dive shop is small but well stocked, there are two dive boats and the staff is delightful.

The 42 foot *Odysseus,* captained by Carol Peder or Neil Graber, is Central Pacific Divers' largest dive boat. *Odysseus* carries 14 divers and three crew members comfortably at 14 knots. It has a large open stern area for gearing up; a covered area, padded for sitting or lying down; and a cabin where you can change film, play cards or munch snacks. For entering and leaving the water, there are ladders and a platform at the stern.

Although several more divers could fit aboard *Odysseus,* Jane and Pete Cambouris (Central Pacific Divers' owner/managers) refuse to run a cattle boat operation. They hold the line at 14 divers, or 16 if the divers have chartered the boat as a group. Their goal is to provide a comfortable experience so people will return to CPD.

The smaller, 28 foot *Telemachus,* captained by Byrd Gleason, Eric Le Feuvre or Steve Young, is used for groups of up to six divers and is often used for private charters. It doesn't have an enclosed cabin, but the partial cabin overhead does provide some shade. Both boats have running fresh water and functioning marine heads. Their V-hulls are well-designed for open seas. They can take the waves and keep you dry and out of the wind at the same time.

For the two and three tank dive trips to the islands of Molokini or Lanai the boats leave early in the morning—*Odysseus* at 7:30 am and *Telemachus* at 8:00 am. The crew gives a concise, informative briefing before casting off. The trip usually takes about one and

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DIVE HAWAII

one-half hours. Because the Hawaiian Islands are in the open ocean, dives are usually made on the lee side of an island. Thus, the captain for the day makes the final dive site selection after checking the water conditions visually.

While the diving is supervised, you aren't pushed around. After describing the features of the site, guides will take you on excellent tours. They point out docile, sleeping white-tipped reef sharks and show you how to pet an eel. They pass out bags of bread and show you how to attract a bouquet of bright yellow lemon butterflyfish around your hand. And, at Lanai, where there are many caves, they hand out dive lights. If you're a new diver, a guide will stay close to you. Experienced divers are free to dive in buddy pairs on their own.

Quartered oranges, vegetable sticks, potato chips and soft drinks are available for snacks between dives and Cindy Young or another crew member serves a generous lunch between the second and third dives on three tank trips. Beer is available after the last dive.

The dive sites offer interesting rock and hard coral formations for wide-angle photography. The Cathedrals are truly spectacular. They consist of large caves with multiple entrances and tall columns connected with majestic arches.

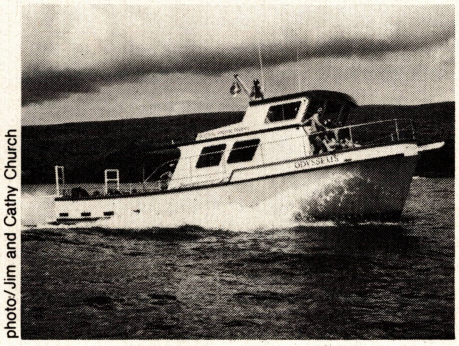
In shallow areas, especially at Molokini, the reef is dotted with red slate-pencil urchins. And, in many areas, schools of lemon butterflies and false Moorish idols fill in the wide-angle scene. If you have a normal lens or 110 camera, the eel feeding and petting, sleeping sharks and fish feeding are all good subjects.

Because many of the reefs are exposed to an occasional mid-Pacific storm, they are composed of organisms resistant to large waves. Delicate sponges and soft gorgonians are not part of the Hawaiian shallow reef ecology. Look instead for lovely encrusting sponges, hard corals, large, open-water animals, colorful fish, octopus and caves and tunnels. For close-ups, we found nudibranchs and colorful hermit crabs.

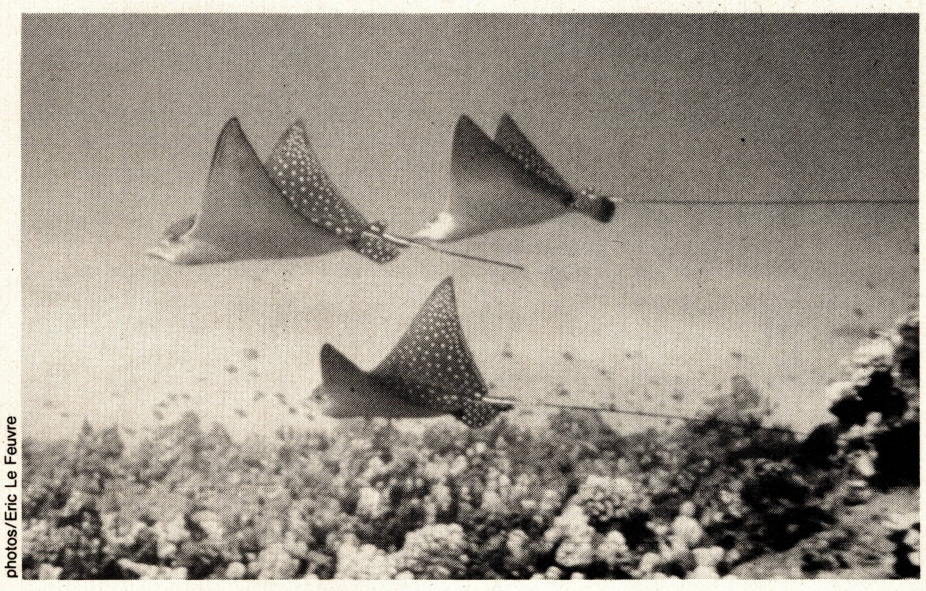
Crew members Byrd Gleason, Byron Dunn and Eric Le Feuvre are avid U/W photographers who can give you practical advice and know how to handle your camera gear. If you need a model, Beth Gleason or another divemaster will pose with eels and other sea creatures.

Whale watching is another attraction. From January through March the humpback whales stay in Hawaii to give birth and nurse their young. In fact, many of the spectacular whale pictures you've seen on TV and in magazines were taken off Lahaina. We saw whales on the sur-

face each day, and could constantly hear their songs while underwater. You can't approach the whales without a hard-to-get research permit. Otherwise, the fine is $20,000! Thus, apart from a chance encounter underwater, most of your whale



photo/Jim and Cathy Church



photos/Eric Le Feuvre



shots are best taken from the deck of the boat with a telephoto lens.

In lieu of whales, you may find turtles, manta rays, schools of eagle rays or perhaps a whale shark. One of these latter dawdled around Molokini for several hours last year while divers swam all around it. A group of false killer whales came by as we were getting into the water. Eric saw one of them attack and eat a large mahi-mahi that had taken refuge beneath our boat. Hawaiian diving is full of surprises, so keep your eyes open!

The water temperature ranges from about 70°F in the winter to 75°F in the summer. To coldwater divers, this is quite warm. But if you are accustomed to 85°F water, bring a full, three-sixteenths inch suit for winter and a shorty wetsuit for summer. Macro photographers, who often spend much of their bottom time virtually motionless in one area, usually need more protection. Jim (who was secretly called the "Polar Bear" by the crew) never did wear a wetsuit during our ten days of winter diving. Much to Jim's chagrin, Cathy, who chills easily, started chasing fish to keep warm in her one-eighth inch suit.

The single tank, afternoon dive to the *Bluegill*—an intact WW II submarine sunk in 130 feet of water for Navy training exercises—is one that you shouldn't miss. When you go down the descent line, you see the conning tower looming up from the bottom. Then, the cigar-shaped hull comes into view. Schools of yellow goatfish hover over the deck, eels look out of nooks and crannies, and the large propellers and torpedo tubes at the stern provide backgrounds for diver portraits.

One of the most delightful aspects of diving with Central Pacific Divers is being with the crew members. They work together as a team, and their enthusiasm rubs off on the divers. They're a lot of fun to be with.

Although not affiliated with any resort or hotel, Central Pacific Divers will make recommendations. We suggest getting a room with a kitchen so you can have breakfast early enough for the morning departures.

For more information and reservations, contact: Central Pacific Divers, 780 Front St., Lahaina, Maui, HI 96761; or phone (808) 661-8718. Multiple day discounts and group rates are available.



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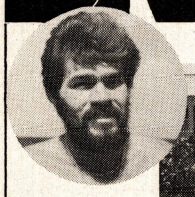
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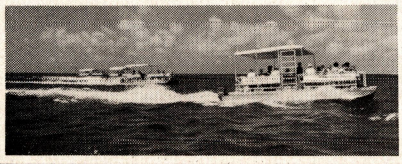
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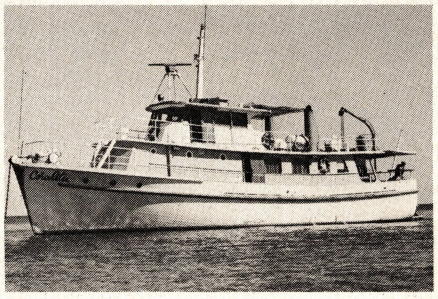
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For further information and reservations write: La Mer Diving Seafari, Inc., 823 United Nations Plaza, Suite 810, New York, NY 10017.

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Casa Bertmar Diving and Fishing Resort on Grand Cayman is now offering vacationers the opportunity to become fully certified divers. The Learn to Dive package includes eight days/seven nights in air-conditioned accommodations, all meals, and a seven day PADI open water certification course.

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For information contact Casa Bertmar, Box 637, Grand Cayman, B.W.I.

CAYMAN SANDS PROMOTION

Bob Soto's Diving, Grand Cayman, and Caribbean Adventures Ltd. have a joint dive program for September 5 to October 20. Divers will stay at Cayman Sands Village, a condominium complex on Seven Mile Beach. Bob Soto's Diving will pick divers up on the beach.

During the two month promotion, the hotel/dive package price will be reduced by 25 percent. When eight divers are paid, the ninth and tenth are provided diving and accommodations at no cost.

For information, contact Caribbean Adventures Ltd. at (800) 282-9178 in Florida or (800) 237-3803 nationwide.

SEA OF CORTEZ TOURS

Michael and Lauren Farley, authors of *Diving Mexico's Baja,* will host dive/photo tours aboard the *Don Jose,* with Baja Expeditions, Inc. In addition to regularly scheduled group trips to the Sea of Cortez through November, the Farleys will also be leading two special, seven day photo/dive expeditions with underwater photographer and cinematographer, Howard Hall. These are scheduled for Sept. 26-Oct. 2 (a special week on the seamount to observe and photograph manta rays and schooling hammerheads); and Oct. 3-9, which will be spent diving the offshore islands.

Nightly slide lectures will detail local bird, mammal and aquatic life. For further information, contact: The Farleys, c/o Baja Expeditions, P.O. Box 3725, San Diego, CA 92103.

SEE & SEA TO VANUATU

Carl Roessler will escort two groups to Vanuatu (formerly New Hebrides) to dive the wreck of the S.S. *President Coolidge*.

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The Roessler Vanuatu group departures are August 22 from Fiji and October 17 from Australia: additional departures can be arranged by contacting See & Sea Travel.

GUADELOUPE CRUISE

Carl Roessler will escort a Guadeloupe dive adventure August 28-September 4. *Cadaques*, a 56 foot mahogany and teak sailing vessel, is See & Sea's flagship in the French Caribbean. Her itineraries range among the reefs of Guadeloupe, Dominica and (on two week charters) Martinique. In addition to regular monthly departures to accommodate singles and couples, *Cadaques* is available for charter by groups of four to six. It is ideal for family groups with children.

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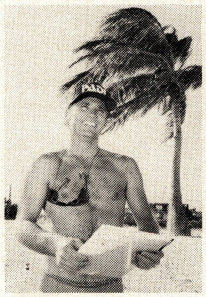
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For information contact Surfside Water Sports, P.O. Box 891, Grand Cayman, B.W.I.—telephone (809) 949-2724 or (809) 949-4478 (evenings).

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Poseidon Ventures will have a special underwater photography tour to the Philippines aboard the 120 foot yacht, *Lady of the Sea*. The vessel will depart from Cebu and spend 10 days cruising the region around Bohol in the Visayas. Included are all meals and unlimited diving.

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For further details and reservations contact: Sport Tours, 305 Alcazar Avenue, Coral Gables, Fl. 33134.

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Cayman Diving Lodge has announced rates for eight day/seven night scuba diving packages, effective through December 14.

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DELUXE U/W PHOTO COURSE

Dick Batchelder of Columbus Landings Service Co. recently announced a deluxe one week underwater photography course to be held August 28 to September 4. Open to beginner and experienced underwater photographers alike, it is classified as an advanced/comprehensive training course in 35 mm still photography. Batchelder states that it is the only course of its kind in the world today.

The course will be held at the one-half million dollar facility at the Riding Rock Inn Resort in the southern Bahamas. This unique facility is fully air-conditioned, with ultra-modern furnishings and a complete custom color film laboratory adjacent to the audio-visual classroom. The school is conveniently located at the marina, next door to the dive shop and within 50 feet of the dive boats.

The most unique aspect of this deluxe course is that students are loaned, on a no-charge basis, all types of underwater strobes, macro tubes, close-up lenses, wide-angle lenses and optical viewfinders. An estimated $100,000 worth of equipment and accessories is provided so that students may try a wide variety of makes and models prior to purchase. Students need only bring the basic Nikonos camera body or rent one.

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For more information and reservations call Joan or Maureen at the Travel Desk, Riding Rock Inn Resort, U.S. toll free (800) 327-2724. In Florida/Canada call (305) 524-4629 or write: Columbus Landings Service Co., P.O. Box 1492, Ft. Lauderdale, FL 33302.

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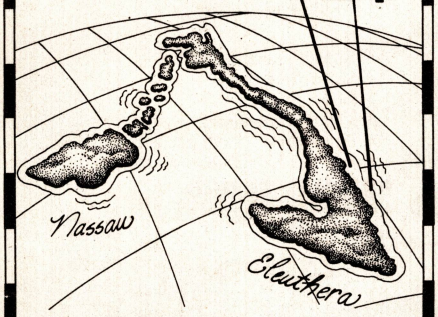
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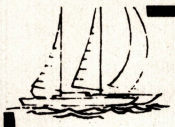
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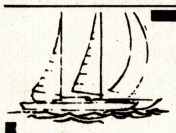
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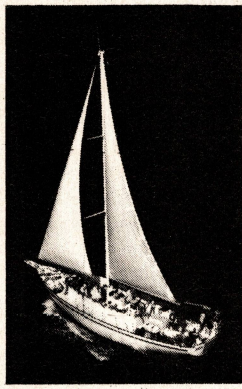
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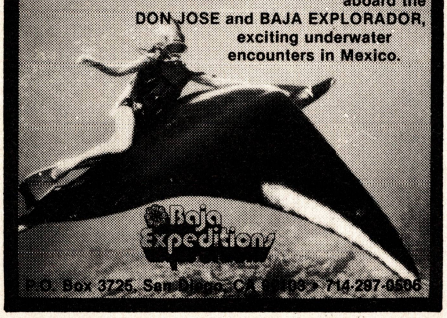
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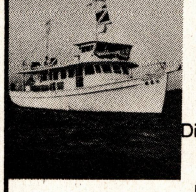
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IN MEMORIAM

Glenn Miller

BY HILLARY HAUSER AND DEWEY SCHURMAN

Except for the ending, it would have been another good Glenn Miller story. You know, working on a movie set in the desert, late afternoon, flying the chopper just above the Colorado River, when all of a sudden there was this *@!&*O%@@! cable stretched across the canyon . . . .

If you spent much time with him, you heard most of his stories at least once. But stories were as much a part of Glenn Miller as his springer spaniel, Mac; dinner at Arnoldi's; his battered silver lighter; and bluegrass music. Although you might have to listen to some of the stories time and time again, you always knew there would be new ones, because things happened to Glenn Miller that don't happen to most people.

For example, how many people go on a treasure hunt—and get arrested by the Colombian navy? Or take someone to court for stealing a pet sea lion—and wind up getting fined for slander? Or start surfing in their late 30's and jumping show horses in their late 40's? Or have a parrot almost burn down a house?

A cowboy-turned-truck driver-turned-commercial swordfisherman, Glenn had the great luck and good fortune to start a charter dive boat business that kept him well supplied with tax deductions, spare change, and a seemingly endless supply of both girlfriends and stories.

Stories were definitely a Glenn Miller forte, and the more disastrous the better. His friends knew when they were coming. He'd pour his third Tia Maria into his special glass (allowing his friends their half-a-glass), light his Marlboro with the silver lighter that had GEM engraved on the lid, and tell about the time . . . .

Glenn's friends heard the stories so many times that they assigned them numbers. Then, when he started to tell one, they'd ask him the number and laugh to avoid hearing the story all over again.

Number 106 was when the parrot chewed on wooden matches—starting Glenn's house on fire and setting off a box of ammunition at the same time. (Glenn was particularly perturbed about this incident because the parrot was asphyxiated by smoke and he still owed BankAmericard for it.)

Glenn loved to laugh at himself, and he especially loved the disasters that kept his lawyer busy. He may not have been the world's greatest charter boat captain (he was always first in line for the hot shower; had little tolerance for passengers who touched the wheelhouse brass; and was reluctant to move his boat once it was anchored—"It's water, ain't it? I'm not moving!"), but a lot of people liked to go out with Glenn because by the end of the trip he usually made them feel good about all things terrible.



photo/Bob Ponce

Glenn had a distinct talent for turning the ordinary into adventure, and disaster into headlines. He made the front page of the Santa Barbara News-Press by bringing in the first swordfish of one season. Then, was on the front page again in a few days when he was fined the value of the huge fish because he hadn't gotten around to buying his new fishing license.

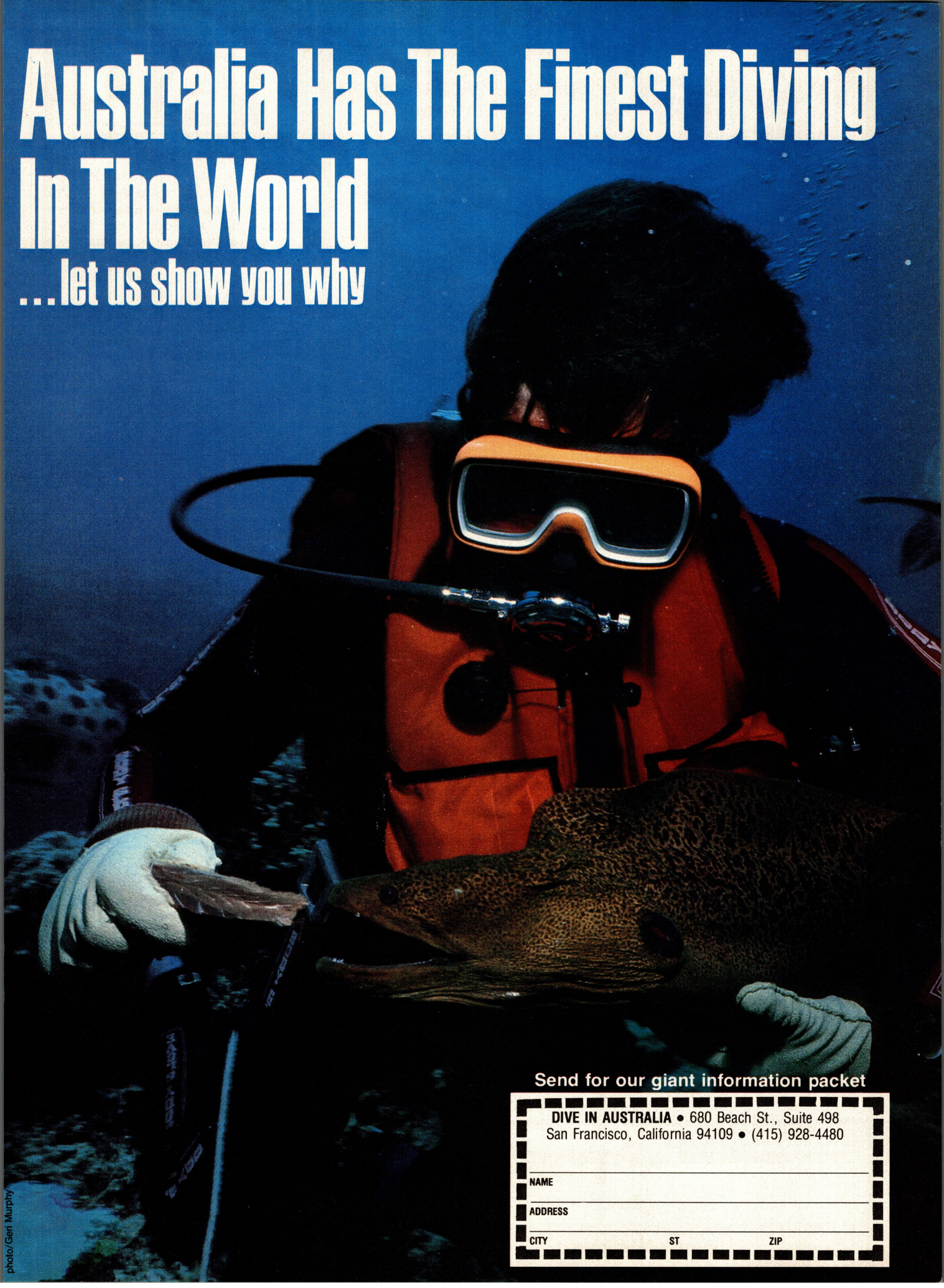
When the *Coral Sea* was seized by the Colombians, did Glenn call his lawyer? No. He called the city editor of the same newspaper, and his tale promptly ran across page one.

Glenn hated obituaries, but he would have been pleased that the story of his last disaster was also front page news. It happened on April 17, 1982. Glenn, 52, was working on a TV film called *American Eagle*. It was the end of the day and he was flying three other cast members through a river canyon toward Lee's Ferry, AZ. As the 'copter rounded a bend, there was a cable Glenn probably never saw.The one survivor of the crash says she doesn't remember a thing, only that she was flying and then suddenly swimming.

His friends held a wake for him, and Glenn would have laughed like hell when his lawyer had red wine spilled all over his white shirt. He would have laughed harder when his girlfriends—all of them—got together in the same room. He wouldn't have laughed, however, at everyone drinking so much Tia Maria without his permission. Even so, he would have had some stories to tell, because telling stories about adventures and disasters was part of having a good time. And, Glenn Miller always had a good time.

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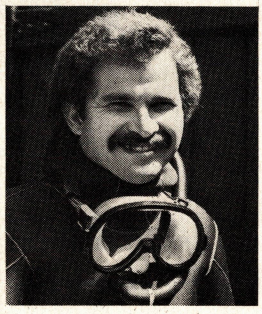
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AVERILL TO PADI

PADI has appointed Harry Averill to the position of publications manager. Averill will provide overall supervision of the design and production by PADI's expanded publication and graphics arts department.

A PADI master scuba diver, Averill has an extensive dive background. Since beginning as a part-time commercial diver over ten years ago, he has been actively involved in diver and instructor training, retail store and resort management, and dive equipment manufacturing.



For more information about the PADI products and support materials, contact PADI Headquarters at: 1243 East Warner Ave., Santa Ana, CA 92705.

DIVER RESCUE WORKSHOP

The seventh annual Sonoma County Diver Rescue Workshop will be held on October 9 and 10 at the Santa Rosa Junior College in Santa Rosa, CA. The workshop is open to all certified divers who want to learn or improve their diver rescue techniques.

The workshop is a non-profit, all volunteer program, dedicated to the advancement of diver education and safety. This year proceeds will go toward grants for diver safety and information programs.

The registration fee for the two day workshop, which includes lecture, lunch, water training, T-shirt, and a NAUI specialty diver card, is $30. Persons not involved in the waterwork can attend the speaker seminar and lunch and will be welcome to observe the water training for $15. All registration fees are non refundable and tax deductible.

For further information and registration forms, send a self-addressed envelope with 40¢ postage before September 10 to: Sonoma County Diver Rescue Workshop, P.O. Box 3967, Santa Rosa, CA 95402; Attention: Virginia Bria.

Staff training for the workshop will be held on October 8 at 5:00 pm at the Santa Rosa Swim Center. Interested instructors wishing to work on the staff contact (before August 1): Rich Petters, (707) 527-5291.

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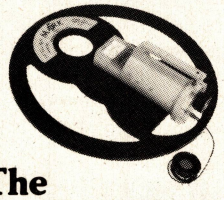
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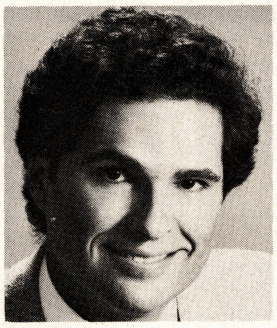
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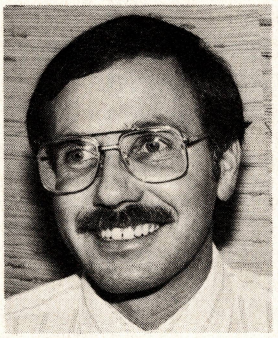
PADI PROMOTIONS

Al Hornsby and Gary Prenovost have been promoted within the PADI Organization. Hornsby, formerly training facility director, is now vice-president, education and public affairs. Prenovost, previously controller and director of operations, has become vice-president, finance and operations.



Al Hornsby

The promotions of Hornsby and Prenovost alter the organization of PADI and represent a consolidation of management responsibilities and controls.



Gary Prenovost

This reorganization will allow Dennis Graver to devote all his capabilities to educational texts. Jeff Nadler will have increased responsibilities in the maintenance of training facility services and the development of new programs to benefit PADI's store members. John Stewart will assume substantial duties including scheduling of instructor training courses, the training of PADI course directors, and the overall implementation of PADI instructor standards and programs while continuing to coordinate international operations.

TREASURE HUNT

On Sunday, August 22 Chesapeake Diving Center and the American Lung Association of Virginia will sponsor a treasure hunt.

All entry fees, $5 per diver, will go the ALAV. Early registration can be accomplished by mailing a check to ALAV, 11116 Jefferson Ave., Suite 102, New-

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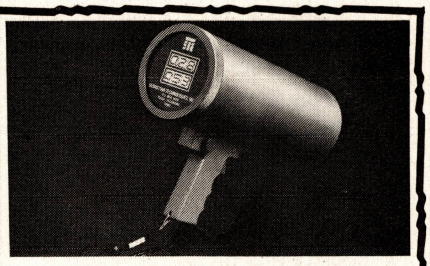
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port News, VA 23601. Registration will also be taken the day of the event, at the dive site, 10:00 am to noon.

All divers must be certified, dive with a buddy (single divers will be paired), and have a buoyancy compensator and submersible pressure gauge. The treasure hunt will be held in Gibb's Lake, just off of interstate 64 in Hampton, VA, 1:00 to 2:30 pm.

For more details, write Chesapeake Diving Center, 1815-A West Queen Street, Hampton, VA 23666; or call (804) 838-2218.

L.A. CITY SCUBA COURSES

The Aquatics Activities Section of the Los Angeles City Department of Recreation and Parks has expanded its programs and is offering scuba diving courses for the first time. The next courses will be conducted at E.G. Roberts Pool, 4526 West Pico Boulevard, 7-10 pm Fridays starting Nov. 5; and Venice High School Pool, 2490 Walgrove Avenue, 7-10 pm, Wednesdays and Fridays, starting Feb. 2.

L.A. City's scuba classes are open to anyone 15 years of age and older who is a competent swimmer and physically fit for diving. Course tuition is $95. This includes 36 hours of instruction, lecture materials and the use of scuba tanks, regulators and buoyancy compensators for pool sessions only. Equipment for open water dives will have to be purchased or rented by participants.

Upon completion of the course, students will be eligible for national certification as a NAUI scuba diver.

For dates of course sessions and registration information, call the Los Angeles City Aquatics Activities Section, Monday through Friday, from 8:00 am to noon, at (213) 485-5558.

SHIPWRECK CHARTS

The Wreck Chart Company, publishers of charts showing shipwreck locations in U.S. coastal waters is updating its Atlantic and Gulf series and preparing a new series of charts for the Bahamas and Caribbean.

"The new charts will be in a format similar to the Pacific Coast Wreck Charts we published earlier this year," explains Mike Weiner, president of the Fairport, New York firm. "The wrecks are plotted on nautical charts, accompanied by the *Wreck Booklet* which lists information on each wreck, including the name and type of vessel, date and cause of sinking, depth and condition of the wreck, and most important, the specific position in latitude/longitude and Loran C."

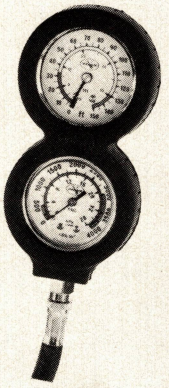
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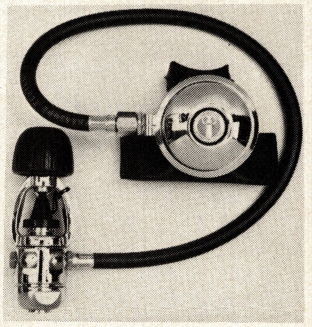
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The Yellow Stingray

(Urolophus jamaicensis)

Stingrays are round, flattened fish with wings for pectoral fins and whips for tails — so unfishlike that many people don't think of rays as being fish at all. Together with sharks, they comprise the Chondrichthyes (cartilaginous fishes). All other fishes in the sea belong to the Osteichthyes (bony fishes). The difference between the two is in the skeletons: those of sharks and rays are comprised of cartilage, while those of the other fishes are of bone. It has been speculated that rays are an evolved shark — the pectoral fins expanding into wings, the flattened body evolving to accommodate a bottom-living existence. ☐ The yellow stingray (sometimes called yellow-spotted stingray) is common, and a member of the Dasyatididae family of stingrays. *Urolopus* has a well developed caudal fin at the end of the tail, which appears flat and paddle-like, as opposed to the thin whip of the closely related *Dasyatis americana*, the southern stingray. Another difference between the two rays is the body shape: *Urolopus* is round, as opposed to the rhomboid shape of *Dasyatis*. In spite of the obvious physical differences, ichthyologists group the two rays together. ☐ Stingrays are so called as most of them have venomous spines in their tails, and in some of the bigger individuals the spine can be strong enough to puncture the hull of a wooden boat or the boot of a man. Divers and swimmers are cautioned to treat all stingrays with respect, because a puncture from such a spine can result in excruciating pain. Ichthyologists Bohlke and Chaplin have described what is called the "stingray shuffle," a way in which fishermen and other waders slide their feet along the bottom to avoid stepping on a ray. In some locations where the urolophids occur in the Bahamas, say the scientists, they can be so thick that the bottom has been described as paved with them — in which case the shuffle is particularly useful. ☐ The yellow stingray is the smallest of Bahamian rays, growing to 26 or 27 inches in length with a disc width of about 14 inches. Its mottled color pattern is highly variable depending on its environment, but generally there are yellow spots over the entire body with occasional dark spots or bands that can appear on the central, raised part. The ray can also be more dark than light, and when it rests in the sand, it is almost impossible to see. Perhaps all a diver might detect of a yellow stingray is a faint outline of the disc, or the knobby eyes protruding above the sand. It buries itself for camouflage and also to eat, since it digs up burrowing invertebrates with its pectoral wings and settles down to gnaw through them with powerful teeth. ☐ The yellow stingray lives in relatively shallow waters in reef areas, or in sand patches next to reefs, and has been recorded from North Carolina and the Bahamas to the northern coast of South America, including the Gulf of Mexico. Bohlke and Chaplin have recorded it in the Bahamas from the Great Bahama Bank and from Cay Sal Bank. Its scientific name comes from Jamaica. It is also found off Cuba and Florida.

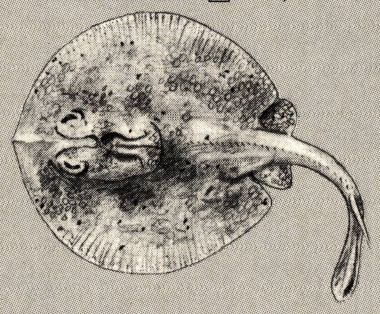


Photo By Paul Humann - Text By Hillary Hauser

Humann photographed the stingray in 35 feet of water off little Cayman Island. He used a Nikonos III with a 28 mm lens and a Farallon/Oceanic 2001 strobe. Kodachrome 64, shot at f8, four feet from the subject.

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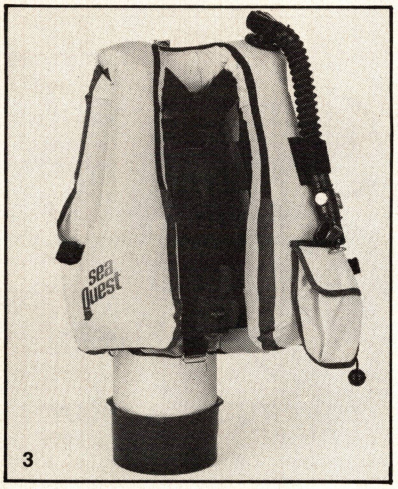
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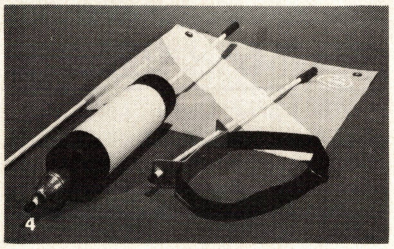
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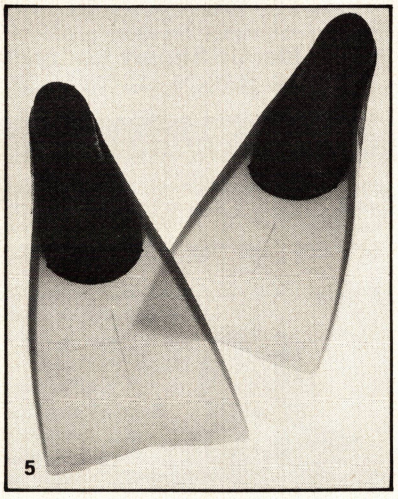
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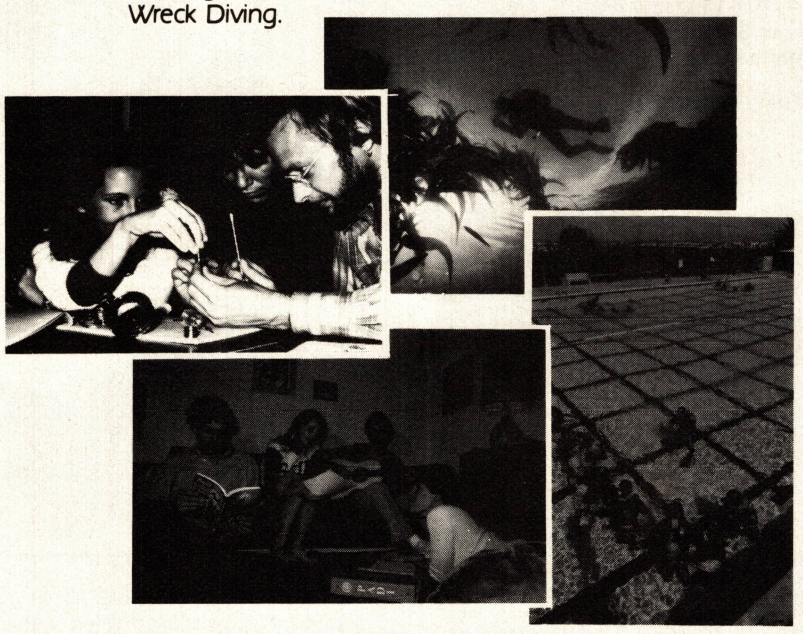
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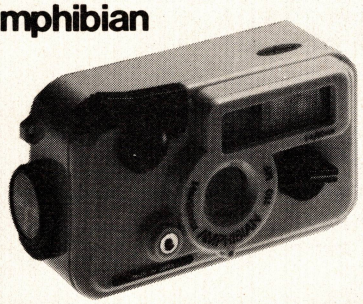
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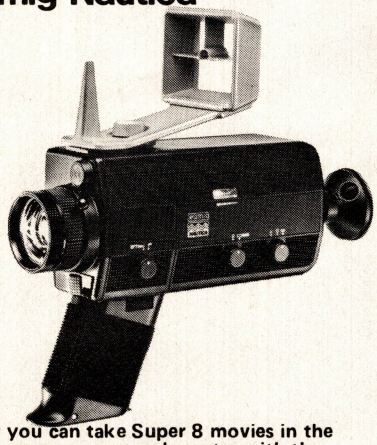
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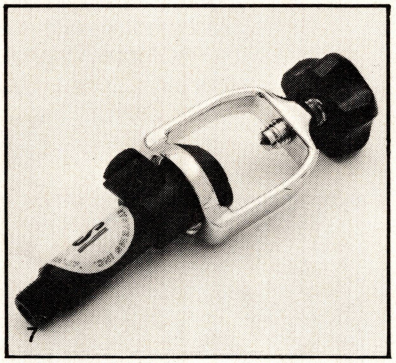
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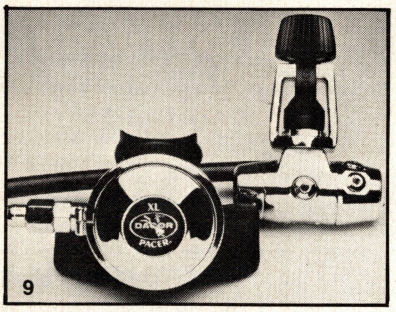
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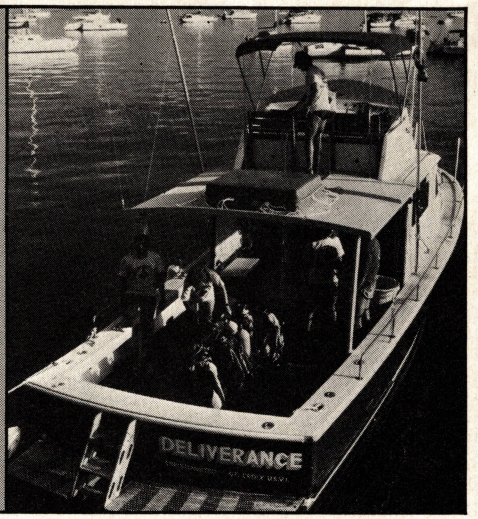
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(Continued on Page 112)

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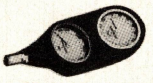
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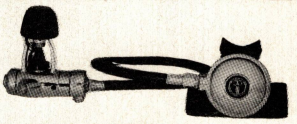
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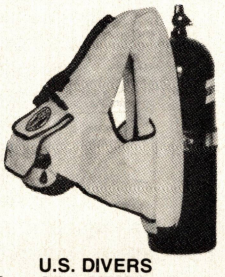
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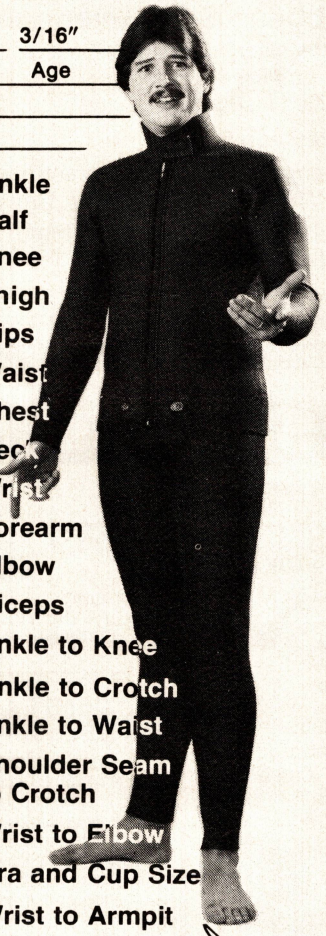
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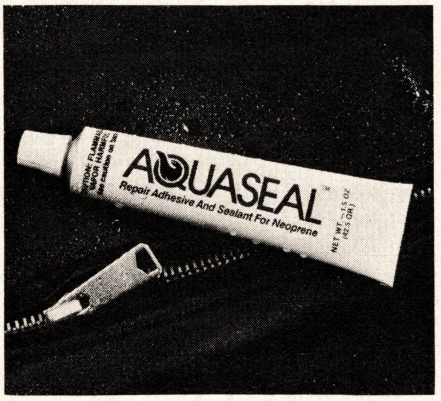
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AQUASEAL

BY JIM WALKER

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Aquaseal is a urethane rubber compound. After curing it is clear or translucent, colorless and flexible. Flexibility is



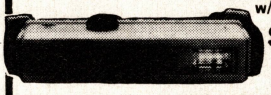
one of its most important characteristics. A thick bead of cured Aquaseal can be stretched, mashed, twisted and folded, yet spring back to its original shape without any damage. Aquaseal never becomes stiff or brittle.

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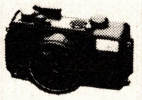
A simple set of instructions must be closely followed when using Aquaseal. First, the compound contains toluene and is flammable. It should be used only in a well ventilated area, away from extreme heat or flame. Second, clean the surface to be glued well with a solvent—paint thinner, nail polish remover or toluene. Non-fabric coated surfaces should be roughened with sandpaper before cleaning. Third, Aquaseal must be fully cured before any flex or strain is placed on it. The drying process will usually be complete within 24-36 hours. For material

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over one-eighth inch thick, up to 48 hours may be necessary.

Aquaseal can be squeezed onto neoprene directly from the tube and/or spread with a flat stick. With nylon and Lycra coated neoprene, the compound should be worked into the fabric.

When filling holes or mending seams, create a backing with tape on the far side of the repair. This will keep the repair smooth and avoid getting glue on other areas. The tape should be removed after curing.

When waterproofing seams, the compound should be applied at least one-sixteenth inch thick and be spread out to at least one-quarter inch on either side of the seam.

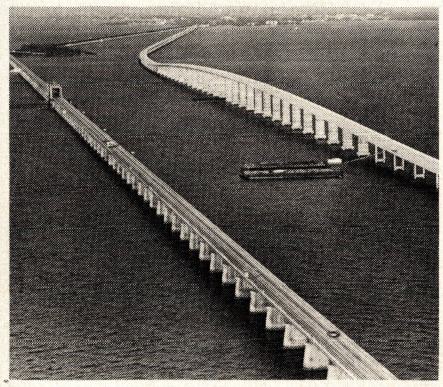
Over time, exposure to ultraviolet light may cloud the surface of exposed Aquaseal slightly, but this in no way affects its strength or stretch.

Aquaseal is available for under $5 per 1.5 ounce tube. Industrial size tubes are available. Aquaseal can be purchased at your local dive shop. For more information contact: D.V. McNett & Company, 2009 Iron Street, P.O. Box 996, Bellingham, WA 98227. In Canada contact: Fitz-Wright Manufacturing, 17919 Roan Place, Surry, B.C. V3S 5K1.

FLORIDA'S SEAGOING HIGHWAY

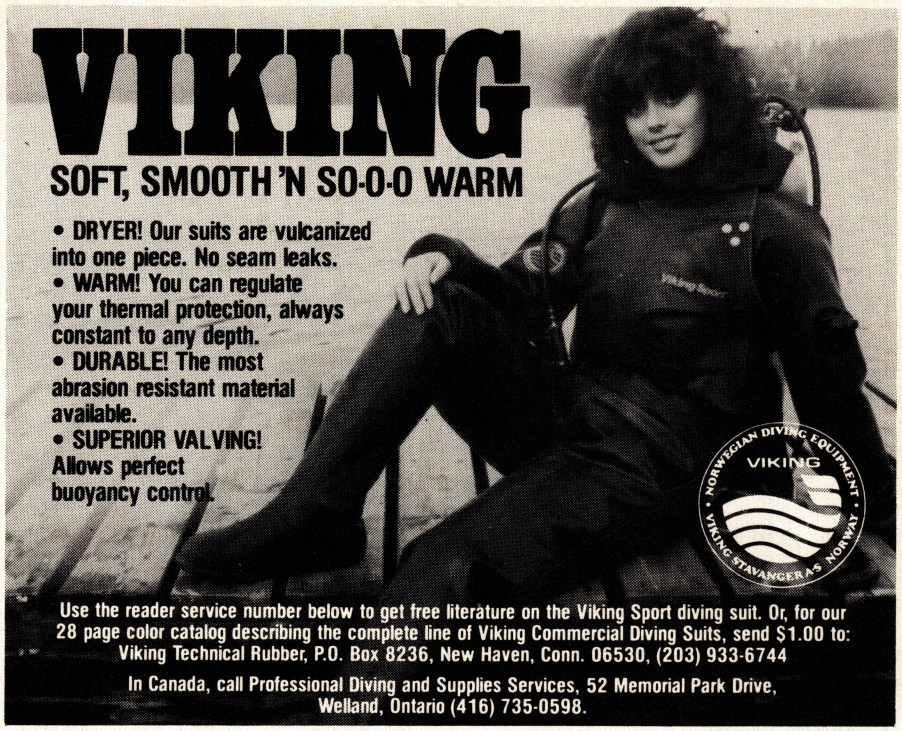
The Overseas Highway has undergone an intensive reconstruction program designed to make it easier, safer and more fun for visitors.

Thirty-seven of the highway's 43 bridges have been replaced. The upgrading of the highway—113 miles—cost the

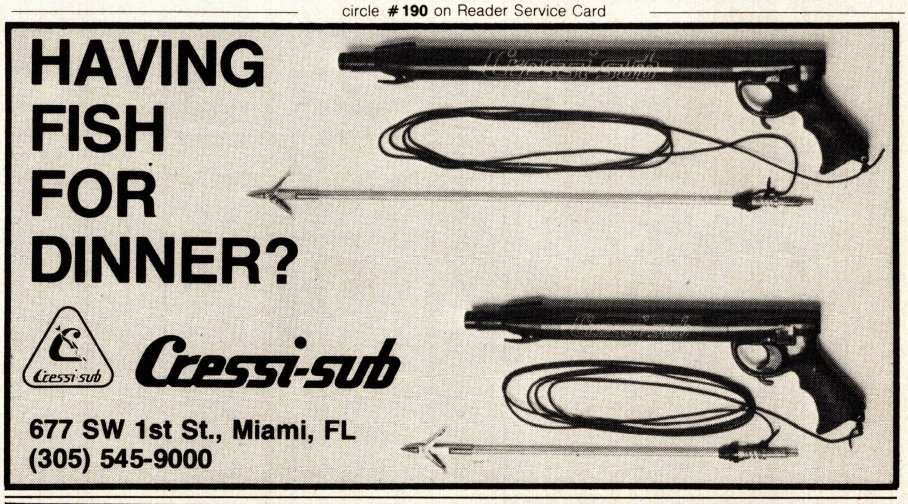


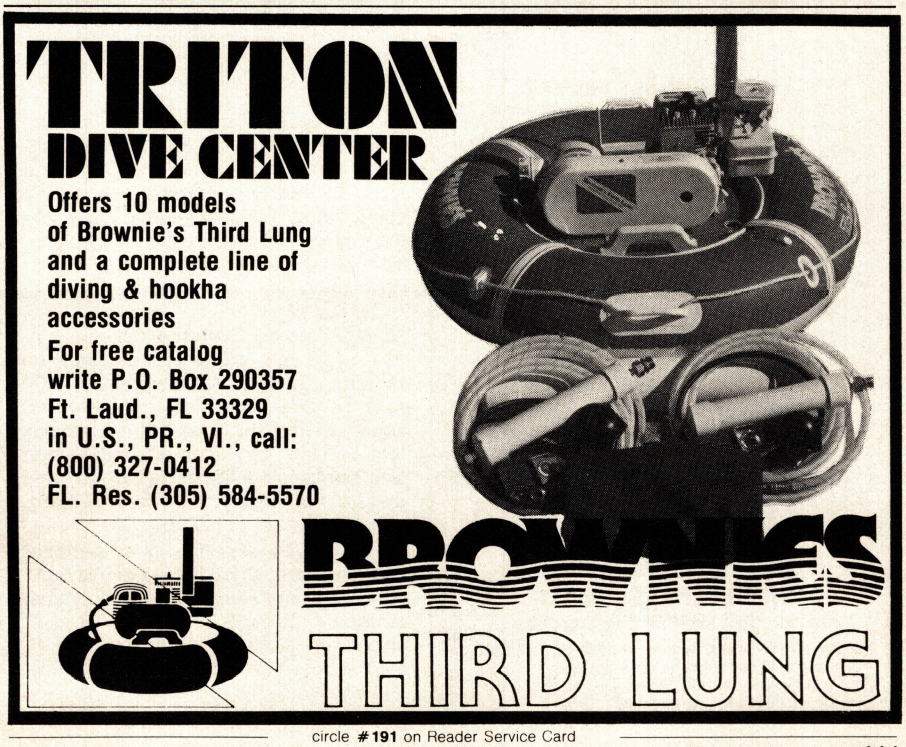
State of Florida $175 million, according to Jack Mueller, Key West, Florida bridge program manager.

The highway—the Rainbow Road to many motoring vacationers—stretches from slightly south of Miami to Key West, the U.S.A.'s southernmost city and a long-time tourist attraction. Many visitors have compared the Overseas Highway journey to a land cruise or island hopping. With increasing frequency, the Florida Keys, the chain of islands linked by the highway, are being labeled America's Caribbean Islands.



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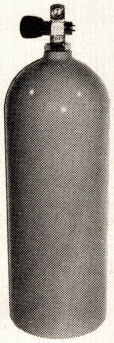




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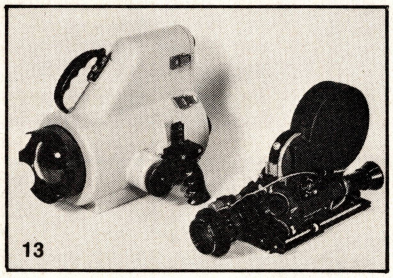
Underwater Life Support Systems are potentially dangerous to a non-trained user. These include scuba tanks, regulators and buoyancy compensators. This ad does not constitute an offer to sell these items via mail order.

NEW GEAR

(Continued from Page 109)



12



13



14

12 Dive Glove—The Grabber II is made of 3/16 inch Rubatex Sof-Cel 5000 rubber with so much stretch that only three sizes fit nearly everyone. Warm and comfortable, this five-fingered glove lets the wearer feel what he/she is touching. Special stitching adds strength. $35. Royal/navy blue. From Parkway dealers.

13 U/W Movie System—Includes Arriflex S 16 mm camera and aluminum housing. Camera is converted to 400 foot co-axial, daylight load. Electric zoom controls the 5.9-57 mm Anginieux lens. Housing has a corrected dome port and controls for focus, aperture, and speed. $14,000. From Oceanic.

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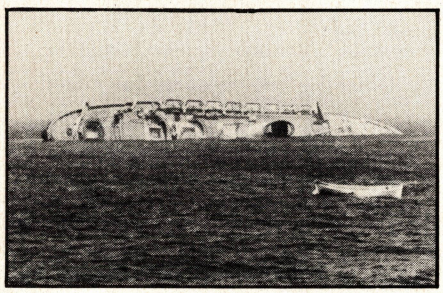
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CAPE COD WRECKS

BY JOSEPH AMARAL

Cape Cod is a network of islands off the Massachusetts coast between Boston and New York. Dense fog, hurricanes, treacherous shoals and crude methods of navigation have left many wrecks in her waters since the early 1600's. To avoid her dangerous waters, the ship traffic from every major seaport of the world uses her 17 mile, man-made canal.

One of the most notable marine disasters was the Italian luxury liner *Andrea Doria*. On July 26, 1956 the *Doria* was



photo/courtesy U.S. Coast Guard

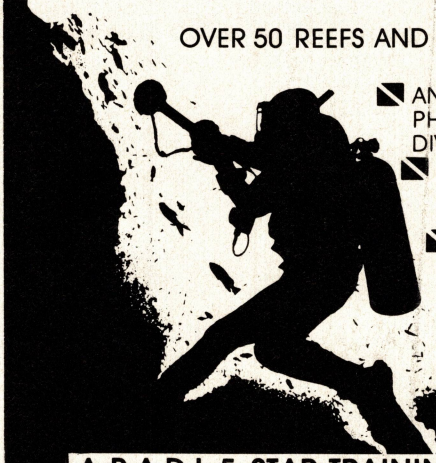
rammed by the steamship *Stockholm*. The collision took place some 50 miles south of Nantucket Island. The *Doria* now lies in 220 feet of the most treacherous waters around Cape Cod. Her wreck site has been a challenge for the more adventurous divers for many years. Recently, Peter Gimbel spent thousands of dollars to recover her purser's safe and to try to determine why she sank so quickly. It is with anticipation that local divers wait to see the film footage of his adventure.

Another recently discovered shipwreck is William K. Vanderbilt's luxury yacht,the *Alva*. The *Alva,* named after Vanderbilt's wife in 1886, was the most expensive yacht of her time. She was built as a three masted, topsail schooner but was also powered by steam. A steel hulled, 285 foot vessel, she was built in Bar Harbor, Maine. During a cruise in dense fog to Newport, Rhode Island her captain anchored her off Chatham, Massachusetts. Unfortunately the anchorage was in the shipping lane. Out of the fog loomed the steamship *Dimock,* carrying cargo and passengers from New York to Boston. The *Dimock* rammed into the side of the *Alva* causing her severe damage. The Vanderbilts and their guests, along with the captain and crew, left the ship and she sank very quickly. All people on board were picked up by the *Dimock* and taken to Boston. Once in Boston, W.K. Vanderbilt immediately ordered another vessel to be built.

The *Alva's* remains were long forgotten until a local diving enthusiast, H.A. Carr,

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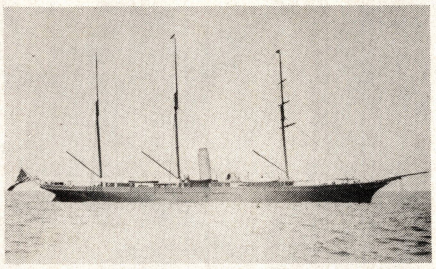
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CAPE COD

found her in 50 feet of water off Chatham. Captain Carr and his compatriots have been researching and locating wrecks using a device known as sidescan sonar. The sonar was built by and was on loan



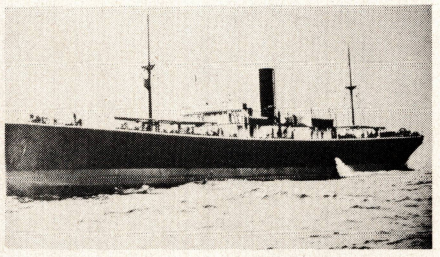
photo/courtesy Peabody Museum

from the Klein Corporation of New Hampshire.

Captain Carr, with the aid of the sidescan, also located the four masted schooner, *Sagamore*. The *Sagamore*, built in Kennebunk, Maine in 1891, was 219 feet long. She was carrying 2200 tons of coal from Virginia to Boston. Upon entering Nantucket Sound on May 12, 1907, she was hit by the steamship *Edda* . The *Sagamore* was running before the wind when struck. Her boom swung across the bridge of the *Edda* and somehow the captain was removed from the steamship and deposited on the deck of the now sinking *Sagamore*. What a conversation must have taken place as both captains were forced into the same lifeboat while they watched the *Sagamore* sink!

The *Sagamore* lies in 80 feet of water just off the island of Martha's Vineyard. The *Sagamore* is a wreck you will want to visit again and again. Her whereabouts were once a well kept secret but now her grave site can be explored. Until recently her large ship's wheel and storm anchor were intact.

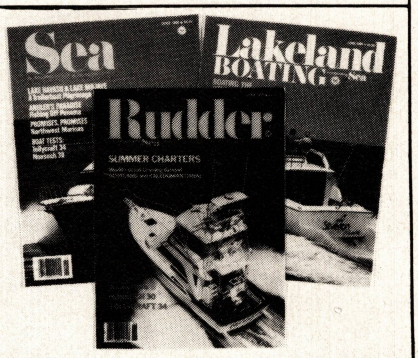
Another popular Cape wreck is the *Port Hunter*. A 400 foot British cargo ship carrying war goods destined for England, she was rammed and sent to the bottom on November 2, 1918. She now lies with her bow in 40 feet of water and her stern in 80 feet. The *Port Hunter*'s decks are covered with marine growth; codfish and striped bass are common sights. She is now home for a variety of fish and invertebrates. Photo enthusiasts will delight



photo/Brad Luther

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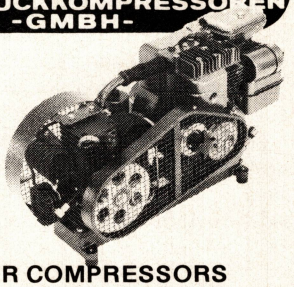
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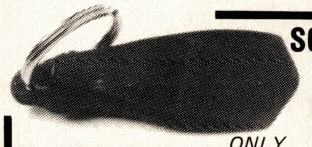
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in her cabin filled with floating candles, her cargo of railroad wheels and her six foot stern gun—still intact.

One of the most interesting Cape disaster stories is that of the *John Dwight.* During the 1920's Cape Cod, like many other areas, was dry. The laws of the time were quite explicit when it came to the use of alcoholic beverages. Fortunes were made during these times by smugglers but it is also said that losses to both sides were heavy. So it was with the *John Dwight.* The *Dwight* was a 125 foot steam powered vessel. Originally a tugboat called the *Pawnee*, she was decommissioned from service after World War I, purchased and renamed. She took on a new enterprise, that of transporting bootleg whiskey.

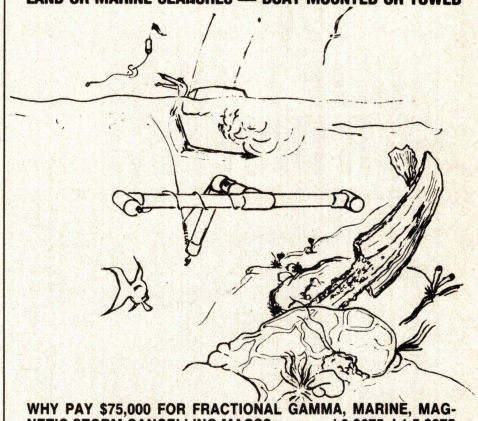
The story of the *Dwight* has changed, I am sure, from storyteller to storyteller, but her sinking is truth and her fate is evidence of a number of crimes. She was supposed to be carrying a large cargo of whiskey along with a crew made up of investors. However, the captain had purchased cheap beer instead of whiskey. While smuggling the illegal cargo into the Cape under the cover of fog, the captain brought the vessel into an area known as Vineyard Sound. Just one mile off the Cutty Hunk Island, he put the vessel at anchor. He then machine-gunned the crew while they were asleep and proceeded to scuttle the ship. It is said he then rowed ashore, never to be heard from again. Some say he carried the sum of $75,000 with him. After hearing the gunfire the revenuers located the wreck site and the bodies of the crew.

The *Dwight* was blown up not only because she was a hazard to navigation, but also to destroy her cargo of illegal beer. The captain was never found but the wreck of the *John Dwight* has been located. Her bones lie in 80 feet of water. Strewn about the vessel are old broken beer bottles.

As you can see, Cape Cod has it all—schooners, freighters, steamships and even rum-runners. The Cape's beaches also offer excellent diving. Dive shops on Cape Cod are helpful and very knowledgeable about the best areas.



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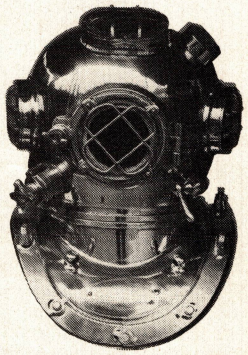
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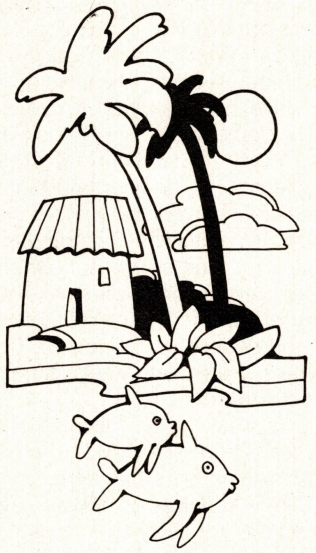
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Divers Directory



Advertising rate is $96 for three consecutive ads, $162 for six consecutive ads, $252 for a full year. PAYMENT MUST ACCOMPANY COPY. Send all material to Diver's Directory—Direct Response Adv., 8490 Sunset Blvd., Los Angeles, CA 90069.

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1951 Newport Bl., Costa Mesa, CA 92627 714/645-5820
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Sales, service, rentals, air, trips.

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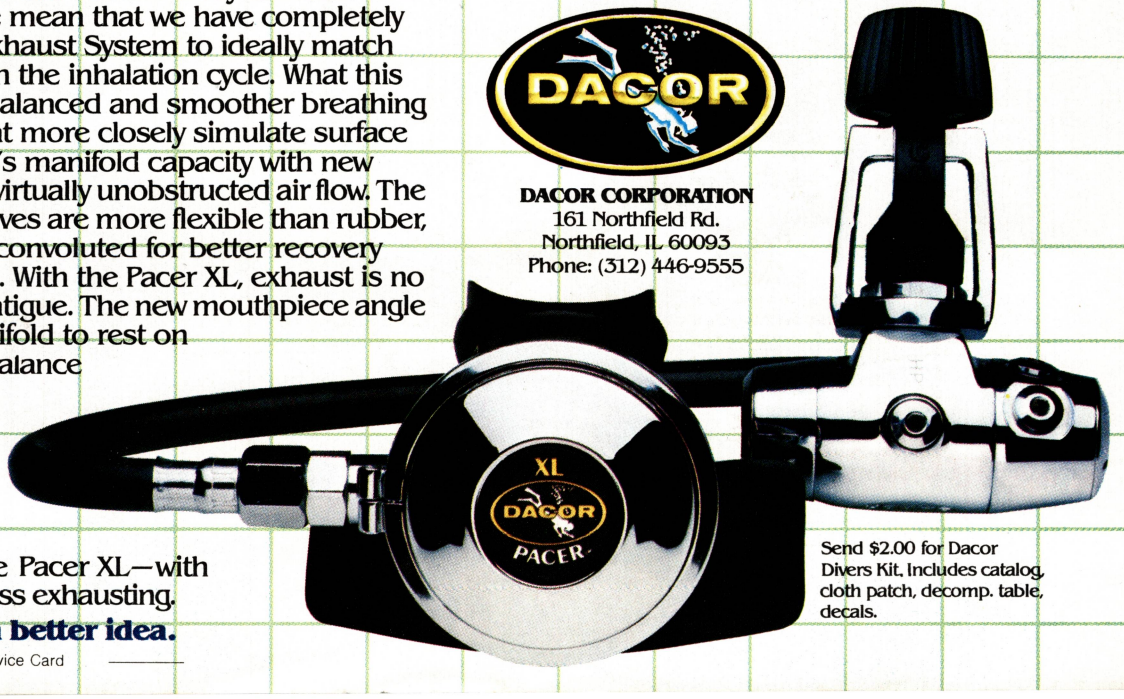
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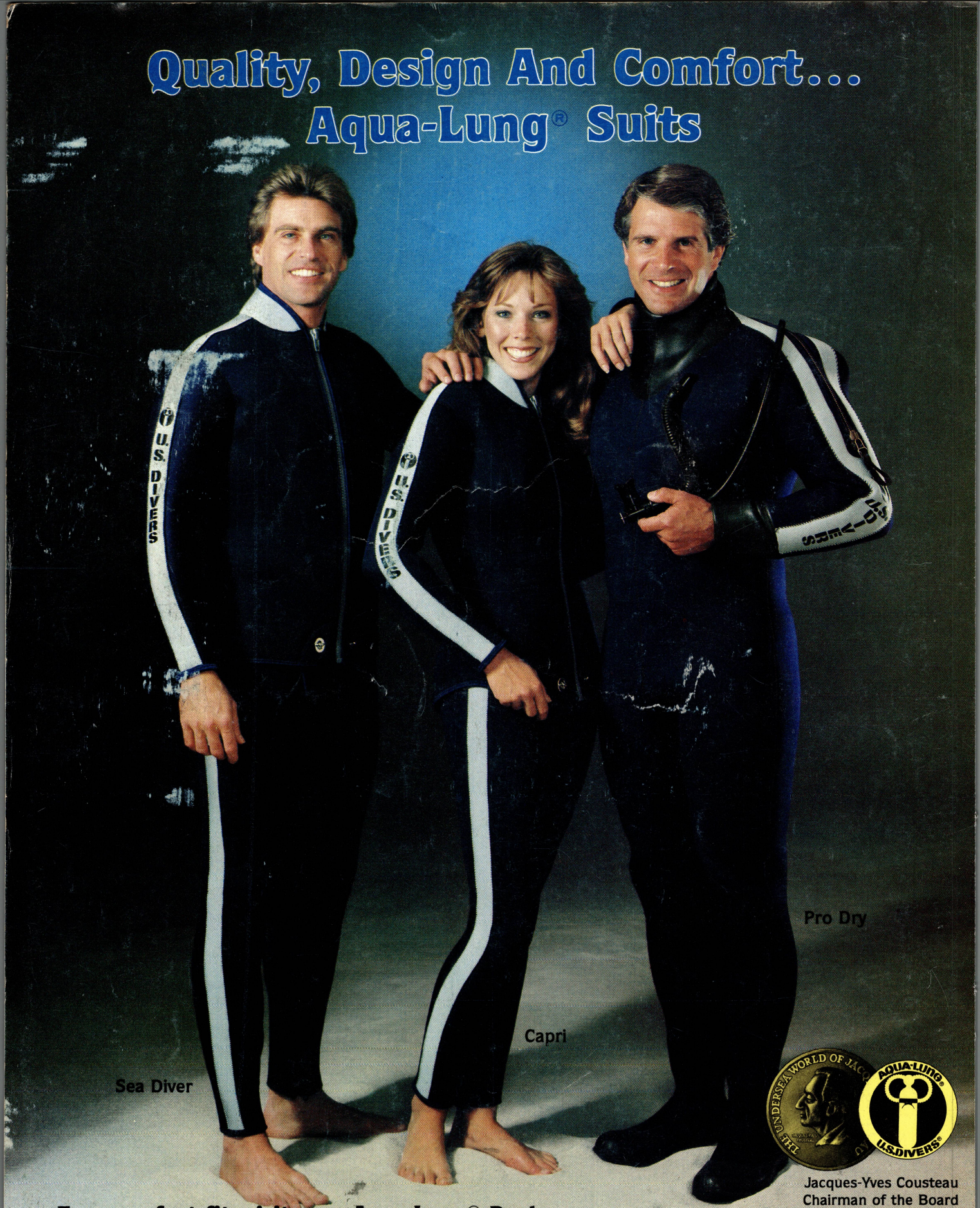
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